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SITE INVESTIGATION REPORT NAVAL EXCHANGE SERVICE STATION BUILDING 1286 CODDINGTON POINT NS NEWPORT RI

2/18/2014

RESOLUTION CONSULTANTS

SITE INVESTIGATION REPORT

Naval Exchange Service Station
NAVSTA Newport, RI
LUST No. LS-2295

FINAL

Prepared for:

Department of the Navy
Naval Facilities Engineering Command, Mid-Atlantic
9742 Maryland Ave.
Norfolk, VA 23511-3095

Comprehensive Long-Term Environmental Action Navy
Contract Number N62470-11-D-8013

CTO WE40

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February 18, 2014

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LIST OF ACRONYMS AND ABBREVIATIONS

BTEX	Benzene, Toluene, Ethylbenzene & Xylenes
CCRF	Coddington Cove Rubble Fill
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CoC	Chain-of-Custody
CTO	Contract Task Order
DO	Dissolved Oxygen
DoD	Department of Defense
EDR	Environmental Data Resources, Inc.
FRP	Fiberglass Reinforced Plastic
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
ICDEC	Industrial/Commercial Direct Exposure Criteria (RIDEM)
LNAPL	Light non-aqueous phase liquid
LUST	Leaking Underground Storage Tank
MTBE	Methyl-tert-butyl-ether
NAVFAC MIDLANT	Naval Facilities Engineering Command, Mid-Atlantic
NAVSTA	Naval Station
Navy	U.S. Department of the Navy
NTU	Nephelometric Turbidity Unit
NEX	Naval Exchange
ORP	Oxidation-Reduction Potential
OHM	Oil and/or Hazardous Materials
PID	Photoionization Detector
PPM	Parts per million
PVC	Polyvinyl Chloride
Resolution	Resolution Consultants
RDEC	Residential Direct Exposure Criteria (RIDEM)
RIDEM	Rhode Island Department of Environmental Management
SAP	Sampling and Analysis Plan
SAA	Same as Above
SI	Site Investigation
SIR	Site Investigation Report
SOP	Standard Operating Procedure
TPH	Total Petroleum Hydrocarbons
USGS	United States Geological Survey

UST	Underground Storage Tank
UTM	Universal Transverse Mercator
VOCs	Volatile Organic Compounds
VOVs	Volatile Organic Vapors

1.0 INTRODUCTION

This report presents the results of a Site Investigation (SI) conducted at the Naval Exchange (NEX) Service Station located in the Coddington Cove section of the Naval Station (NAVSTA) Newport, Rhode Island. This report was completed by Resolution Consultants (Resolution) for the U.S. Department of the Navy (Navy) and the Naval Facilities Engineering Command Mid-Atlantic (NAVFAC MIDLANT). The subject property is currently occupied by an L-shaped building; the westernmost portion of which is occupied by the NEX Service Station (a gasoline-dispensing facility, herein referred to as the "Site") and the easternmost portion of which is occupied by the MWR Auto Skills Shop (garage bays used on the weekend for light auto maintenance training).

Prior to the current site use as a service station, the Site was previously occupied by the Naval Education and Training Center (Building 404). According to the demolition plan for Building 404 dated August 18, 1987, which was provided by NAVSTA Newport, there was a 2,000-gallon No. 2 fuel oil underground storage tank (UST) formerly located at the northwest corner of Building 404. The 2,000-gallon UST was removed as part of the 1987 demolition project. There was also a former 550-gallon double-walled FRP waste oil UST east of the gasoline UST pad. The 550-gallon UST was installed in September 1991 and subsequently removed in October 1997 ("UST Closure Assessment Report" Clean Environment Inc., December 1997) during which no evidence of petroleum impacts were observed.

There are currently three 20,000-gallon gasoline double-walled fiberglass reinforced plastic (FRP) USTs located adjacent to the northeast corner of the Site building and one 2,500-gallon doubled-walled FRP No. 2 fuel oil UST located west of the Site building. The gasoline USTs were installed in June 1991 and the fuel oil UST was installed in January 1990 in conjunction with the construction of the current Site building.

In April 2013, a construction project was underway at the NEX Service Station to replace the current canopy. On April 20, 2013, the Navy's contractor observed petroleum sheen on the groundwater in one of the Site excavations. Depth to groundwater was approximately 6 feet below grade. Visual and olfactory evidence of petroleum-impacted soil (approximately 3 to 4 feet in vertical thickness) was also observed in the "southwest B footing," as noted by the contractor. Based on the current Site configuration, the southwest canopy footing is in the vicinity of the northwest corner of the Site building and in the location of the former 2,000-gallon UST that was removed as part of the demolition of Building 404.

The observations of impacted soil and groundwater were subsequently reported to the Rhode Island Department of Environmental Management (RIDEM) by NAVSTA Newport personnel, via email. On May 24, 2012, RIDEM issued Leaking Underground Storage Tank (LUST) number LS-2295 and requested a SI be conducted at the Site and a Site Investigation Report (SIR) be completed by July 24, 2013. A copy of the SIR Request Letter is included in Appendix A. On May 29, 2013, Navy personnel requested a 60-day extension request to secure the necessary contractual items and funding to conduct the investigation. On September 16, 2013, Resolution, on behalf of the Navy, issued an additional extension request based on the expected timeframe necessary to complete the site investigation and prepare an SIR. The approved due date for the SIR granted by RIDEM is February 27, 2014.

The objectives of this investigation are listed below. A Sampling and Analysis Plan (SAP) was provided to RIDEM for concurrence prior to implementing the investigation.

- Refine the extent of soil impacts from prior operations through soil sampling at 8 locations surrounding the Site.
- Refine the extent of groundwater impacts in the immediate area and downgradient of the Site through the installation of monitoring wells and collection of 8 groundwater samples.
- Delineate the vertical and horizontal extent of contamination to the subsurface through the analysis of the data set.
- Compare analytical results to applicable RIDEM Criteria, where established.

The SAP was approved by RIDEM and work was conducted per SIR requirements, specified under the RIDEM Rules and Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials (RIDEM, 2011). Analytical results were compared to criteria set forth in RIDEM Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases ("Remediation Regulations", RIDEM, 2011).

2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Ownership and Location

Site owner:	US Navy
Site occupant:	US Navy
Site location:	Corner of Whipple Street and Avenue J, Newport, RI
County:	Newport County
Assessors' Plats:	Plat 2, City of Newport
United States Geological Survey (USGS) quadrangle:	Prudence Island quadrangle
Latitude, Longitude:	41°31'9"N, 71°18'56" W (approximate)
Universal Transverse Mercator (UTM) Meter:	X – 306779.0 Y – 4598772.0 (approximate)
Standard Industrial Classification Numbers:	554100 (gasoline station) 541102 (convenience store)

Refer to Figure 1, Site Locus Map, for geographic location and Figure 2, Site Plan, for details of the subject Site.

2.2 Present Site Use

The subject property is currently occupied by an L-shaped building; the westernmost portion of which is occupied by the NEX Service Station, a gasoline dispensing facility, and the easternmost portion is occupied by the MWR Auto Skills Shop, garage bays used on the weekend for light auto maintenance training. The Site is located on Coddington Cove in the southwestern portion of NAVSTA Newport, Rhode Island (Figure 1), at the southeastern corner of the intersection of Whipple Street and Avenue J.

2.3 Site History

Prior to use as the NEX Service Station, the Site was previously occupied by the Naval Education and Training Center (Building 404). Environmental Data Resources, Inc. (EDR) provided historical

topographic maps, Sanborn Fire Insurance maps and aerial photographs for the vicinity of the Site. Resolution reviewed these historical documents for development history of the Site. The following table is a summary of the information obtained from those documents. Copies of the historical information provided by EDR are included in Appendix B.

Year	Document Source	Observations
1892, 1919	Topographic Map	No buildings are shown in the vicinity of the Site.
1921, 1938,	Sanborn Map, Aerial Photograph	According to the Sanborn Map from 1921, the Site and surrounding area is occupied by multiple buildings labeled "United States Government Barracks". The aerial photograph from 1938 shows similarly sized rectangular shapes in this area; however, they do not appear to be buildings.
1942	Topographic Map	No buildings are shown in the vicinity of the Site.
1951, 1955, 1962, 1969, 1970, 1975, 1981	Aerial Photograph, Topographic Map	A building of similar configuration to Building 404occupies the Site.
1995, 1996, 2005, 2006, 2008, 2010, 2012	Aerial Photograph, Topographic Map	A L-shaped building of similar configuration to the current Service Station occupies the Site.

2.4 UST Compliance History

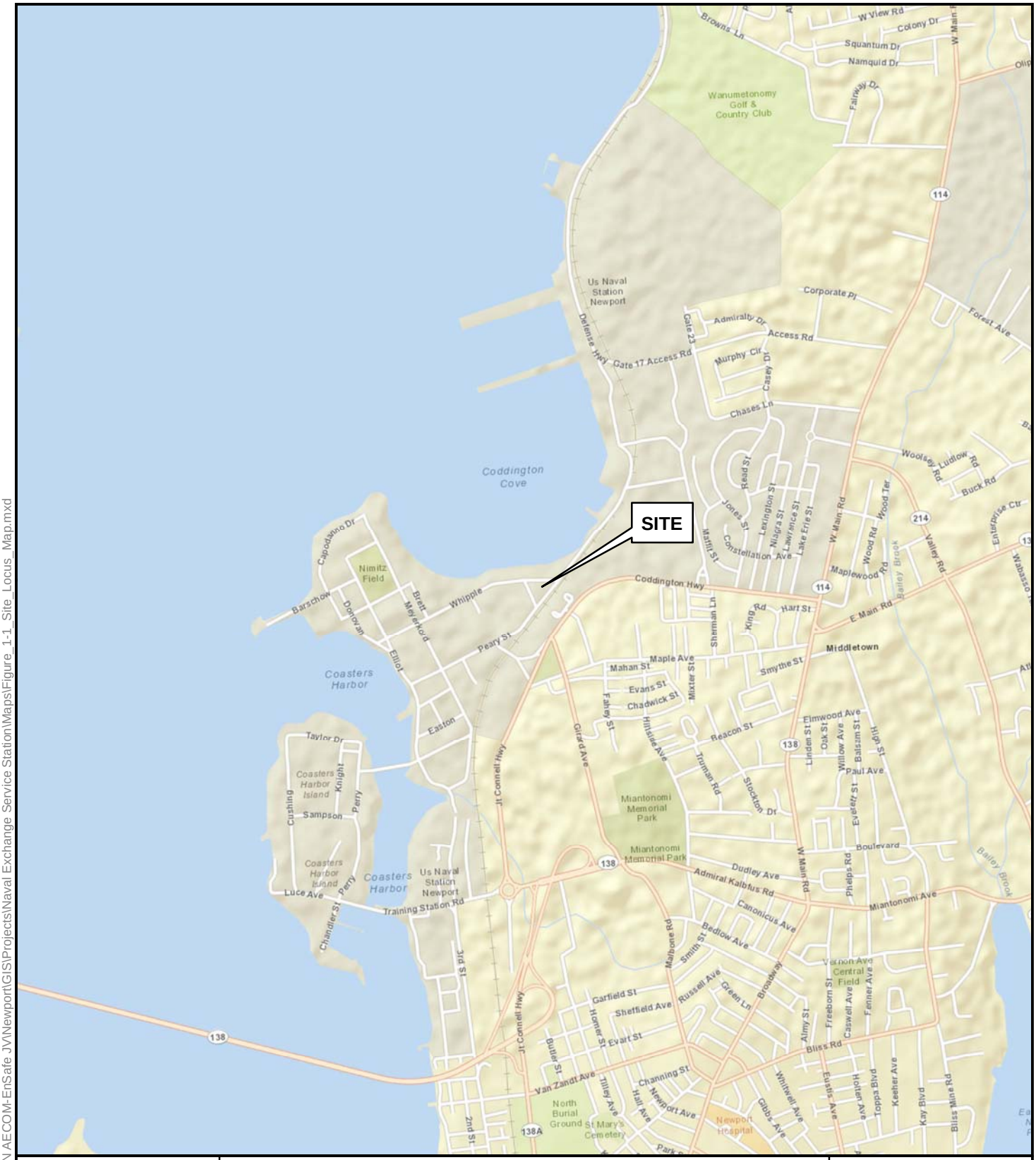
Information pertaining to the compliance history for the USTs that are located at the subject Site was obtained from NAVSTA Newport personnel and from RIDEM. The Site is identified by RIDEM as UST Facility ID 3251. This reported release is designated by RIDEM as LUST No. LS-2295.

There are currently three 20,000-gallon gasoline double-walled FRP USTs located adjacent to the northeast corner of the Site building and one 2,500-gallon doubled-walled FRP No. 2 fuel oil UST located west of the Site building. According to a letter from RIDEM dated December 7, 1989, approval was granted for the installation of these four USTs and a fifth UST (a 550-gallon waste oil UST, which was subsequently removed in 1997). According to UST registration documents reviewed at RIDEM, the gasoline USTs were installed in June 1991 in conjunction with construction of the current Site building. The 2,500-gallon fuel oil UST was installed in January 1990. The tanks were tightness tested and certified as tight in April and July 1991, according to records reviewed at NAVSTA Newport.

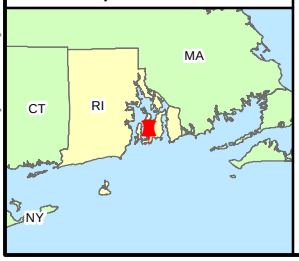
A Certificate of Registration was issued by RIDEM Division of Waste Management UST Section on February 17, 1994 for Facility ID 3251. Letters of Compliance were issued by RIDEM dated May 11, 2004 July 18, 2007, and March 1, 2011, indicating the facility had been inspected and was found to be in compliance relative to RIDEM's UST Regulations.

Documents reviewed at RIDEM indicate that the Site underwent dispenser upgrades in December 2005 and the canopy, dispenser and product piping were upgraded in 2013.

A tank tightness test was conducted on the gasoline USTs on July 18, 2013 during which all three current USTs tested tight. This document is on file at RIDEM.



Map Location



SITE LOCUS MAP

NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT, RI

0 500 1,000 2,000 3,000 4,000 5,000 6,000 Feet

0 100 200 400 600 800 1,000 1,200 1,400 1,600 Meters

Scale: 1:24,000

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Figure 1-1

Date: September 2013

Project #: 60307272

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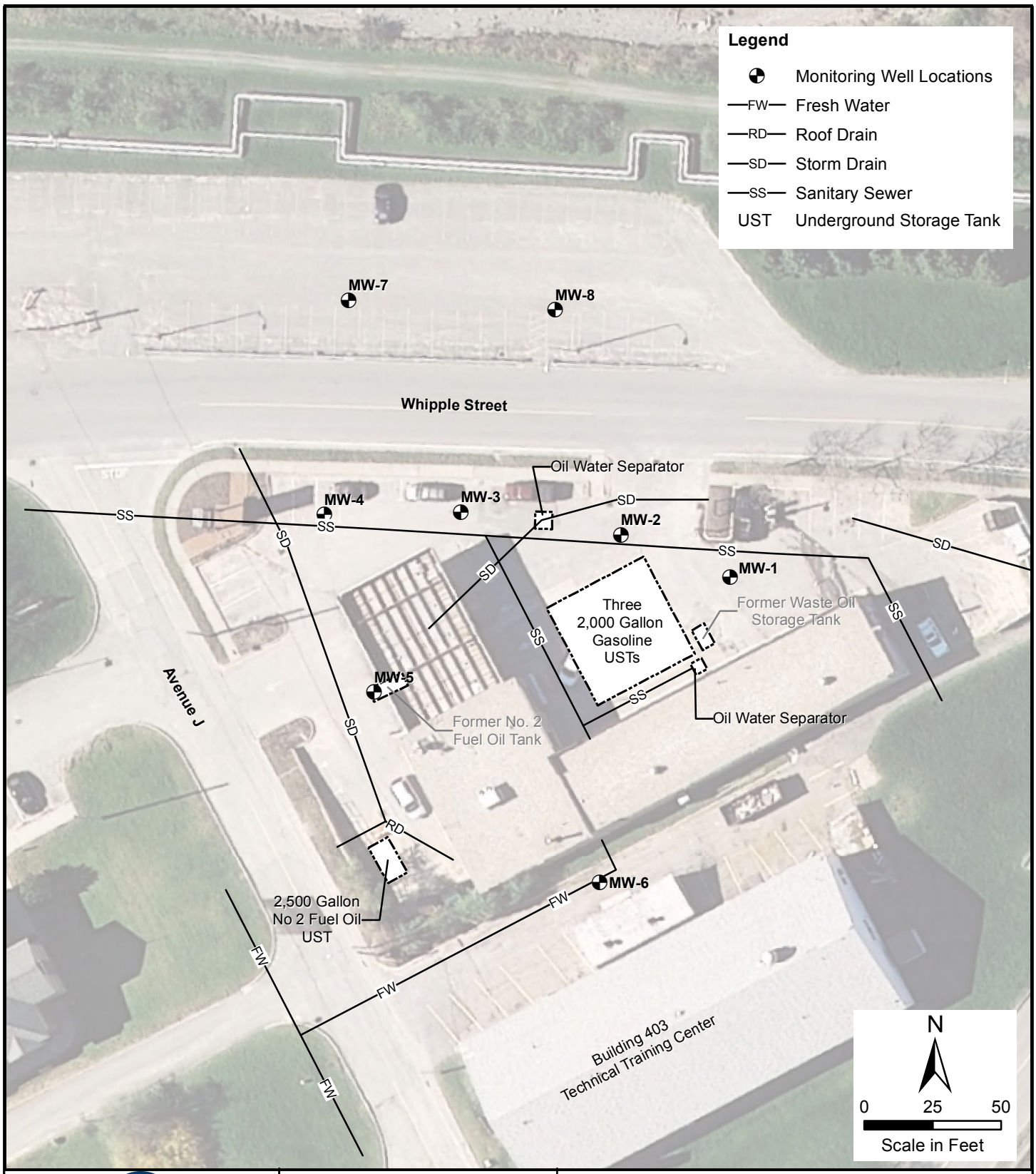

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Map Location

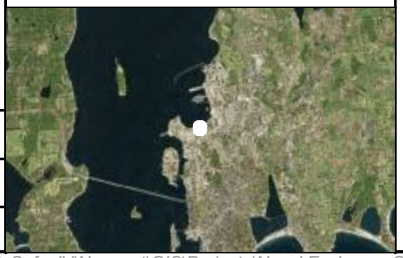

FIGURE 2
SITE PLAN
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT, RHODE ISLAND

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3.0 CURRENT AREA CHARACTERISTICS

3.1 Site Abutters

The Site is bound by Whipple Street to the north, beyond which is a parking lot and Narragansett Bay, the intersection of Whipple Street and Peary Street to the east, Building 403, Technical Training Center, to the south, and Avenue J to the west, beyond which is the Navy Lodge.

3.2 Water Supplies and Surface Water bodies

The nearest surface water body to the Site is Narragansett Bay, which is located approximately 200 feet north of the Site, beyond Whipple Street.

At NAVSTA Newport, groundwater is generally located within aquifers located in the glacial till and bedrock. The groundwater underlying the Site is classified as Class GB. Groundwater classified as GB is groundwater which may not be suitable for drinking water use without treatment due to known or presumed degradation. Groundwater was observed at approximately 3 to 10 feet below grade during this investigation. Groundwater beneath the Site may be tidally influenced, based on the proximity of Narragansett Bay and observations made by Site contractors.

The closest wellhead protection area is approximately 2 miles southeast of the Site. According to NAVSTA Newport Public Works personnel, there are no drinking water supply wells in the Site vicinity.

3.3 Subsurface Conditions

The Site is located approximately 15 to 25 feet above mean sea level. In general, the topography of the Site is flat; however the Site is set into an upward sloping hill to the south. Groundwater is presumed to flow to the northwest towards Narragansett Bay.

Located within the Narragansett Basin, characteristics are primarily Pennsylvanian aged sedimentary rocks. Soil types at NAVSTA Newport consist of silt and sandy loam on the east side, with sand, gravel, cobbles, stones, boulders, and rocks on the west side (Malcolm Pirnie, 2005). Soil characteristics observed during drilling indicate that soil consists of primarily silty sand.

According to the Bedrock Geology Map of Rhode Island the bedrock underlying the Site is from the Pennsylvanian age and the primary rock type is Arenite with a secondary rock type of Shale. Bedrock is reported at approximately 17 to 40 feet below ground surface; however, presumed bedrock was encountered at 12 to 14 feet in monitoring well MW-7 and MW-8.

Depth to water ranged from 3 to 10 feet, as observed in monitoring wells installed as part of this SI.

3.4 Site Utilities

The following section contains information on the utilities located on and adjacent to the investigation area.

- Sanitary Sewer – There are no known septic systems in the vicinity of the Site. According to the Site Grading and Utility Plan for the Naval Exchange Service Station, dated September 28, 1988, a sanitary sewer line crosses the northern portion of the Site parking lot, from east to west. The sewer line enters the Site building from the north from this line, near the gasoline USTs.
- Catch Basins and Stormwater Drains – According to the Site Grading and Utility Plan for the Naval Exchange Service Station, dated September 28, 1988, provided by NAVSTA Newport, there is a catch basin and storm water drainage system on the Site. There are six catch basins and a roof drainage system that connects to a Vortex drainage system located along the northern edge of the Site.
- Water Supply – According to the Site Grading and Utility Plan for the Naval Exchange Service Station, dated September 28, 1988, provided by NAVSTA Newport, a domestic water supply line enters the rear (south side) of the building. The water line enters the property from Avenue J. Water for all of NAVSTA Newport comes from the City of Newport's Lawton Valley and Station 1 treatment plants.
- Natural Gas – There is no natural gas present on Site.
- Electricity, Telephone & Cable – Underground electricity lines enter the building from the light post in the northeast corner of the property.
- Oil/Water Separator – According to the Site Grading and Utility Plan for the Naval Exchange Service Station, dated September 28, 1988, provided by NAVSTA Newport, there are two "oil separators" on the site associated with the storm drainage system beneath the Site. According to Navy personnel the oil water separator is cleaned out once a year.

4.0 RECORD REVIEW

4.1 Database Information

EDR provided environmental regulatory database information for the Site and surrounding area. The report, dated September 11, 2013, includes records of hazardous waste permits, state registered USTs, state and federal records, and reported on-site and/or area contamination. Each database was searched within a prescribed search radius from the Site property boundary. NAVSTA Newport is identified as Department of Defense (DOD) land and is included on the National Priorities List (NPL). The subject Site was not identified on any of the databases searched by EDR. The Coddington Cove Rubble Fill (CCRF) area is located approximately 1/8 mile east northeast of the subject Site. A copy of the EDR report is included in Appendix B. Please refer to the database report for additional information.

According to the well search conducted by EDR, no potable drinking water wells were found within the prescribed radius.

5.0 SUMMARY OF PREVIOUS ENVIRONMENTAL INFORMATION

5.1 Previous Site Investigation Activities

1997—A 550-gallon double-walled FRP waste oil UST was installed in September 1991, east of the gasoline UST pad. The waste oil UST was removed in October 1997 ("UST Closure Assessment Report" Clean Environment Inc., December 1997) during which no evidence of petroleum impacts were observed. During the investigation four head space screenings were conducted with a 10.6eV PID, all of which were less than or equal to 5 ppm. One sample was submitted for analysis and the results indicate a TPH concentration of less than 10 mg/kg and no VOC concentrations above the laboratory detection limits.

2005—In December 2005, product piping and spill containment beneath the dispensers were replaced at the Site. Excavation beneath the dispensers was completed to remove visually and olfactory impacted soil to a depth of 27 to 32.5 inches below grade. Soil at the bottom of each excavation was then screened with a Photoionization Detector (PID) for the presence of volatile organic vapors (VOVs) above instrument detection limits. No PID readings were detected and a total of approximately 8 cubic yards of soil was removed and temporarily stockpiled on-site for eventual off-site disposal. Confirmatory laboratory analysis conducted on soil collected from the bottoms of the excavations indicated the presence of Total Petroleum Hydrocarbons (TPH) at 9,747 milligrams-per-kilogram (mg/kg) in the sample collected from beneath former dispensers 3 & 4 (the southeastern-most dispenser). Additional soil was removed from beneath dispensers 3 & 4 to a depth of 49 inches below grade. A confirmatory soil sample was collected from the bottom of the excavation and submitted for confirmatory analysis of TPH. Laboratory results indicated TPH was not detected above laboratory detection limits in this sample and no additional excavation was required. A total of approximately 20 tons of petroleum-impacted soil was removed from the Site for off-site disposal.

2013—In April 2013, a construction project was underway at the NEX Service Station to replace the current canopy. On April 20, 2013, the contractor observed petroleum sheen on the groundwater in one of the canopy footing excavations. Depth to groundwater was approximately 6 feet below grade. Visual and olfactory evidence of petroleum-impacted soil (approximately 3 to 4 feet in vertical thickness) was also observed in the "southwest B footing," as noted by the contractor. Based on the current Site configuration, the southwest canopy footing is in the vicinity of the northwest corner of the Site building and the former location of the former 2,000-gallon UST that was removed as part of the demolition of Building 404. During construction, the contractor discovered deficiencies with the existing underground piping for the gasoline USTs, including

improper spacing, inadequate burial depth, and direct contact with electrical conduits for piping. Therefore, approval was granted to replace the entire underground product piping system.

6.0 FIELD INVESTIGATIONS

6.1 Pre-drilling Activities

6.1.1 Health and Safety Plan

Resolution Consultants developed a Health and Safety Plan (HASP) that is specific to this Site. The development of this plan is required by the Occupational Safety and Health Administration (OSHA) under Hazardous Waste Operations & Emergency Response 29 CFR 1910.120. The HASP is designed to reduce the risk of physical or chemical exposures that may affect workers in the proposed work area. It includes information about chemicals expected on the Site, health and safety procedures for working on-Site and emergency response procedures, and is maintained on file with Resolution Consultants.

6.1.2 Dig-Safe

Rhode Island requires that, at least 48 hours prior to the initiation of any subsurface work (drilling, backhoe operation, etc.), a Dig-Safe inspection must be performed at the subject property. This inspection consists of the marking of underground utility locations by Dig-Safe personnel. These utilities include natural gas, electric, telephone, and cable. Dig-Safe was contacted for this Site prior to any subsurface work. In addition, NAVSTA Newport Public Works personnel inspected each proposed boring location to ensure there were no utilities in the vicinity.

6.1.3 Ground Penetrating Radar (GPR)

On November 12, 2013 Resolution oversaw geophysical surveys conducted by Northeast Geophysical, Inc. (NE Geophysical), of Bangor, Maine. GPR and Electromagnetic (EM) surveys were conducted around each proposed boring, to locate and mark any underground utilities/features.

6.2 Soil Boring and Monitoring Well Installation

Between November 13 and November 18, 2013, Resolution oversaw the installation of 8 monitoring wells. Drilling was conducted by GeoSearch, Inc. of Fitchburg, Massachusetts.

Soil samples were screened in 2-foot intervals using a split spoon sampler and characterized for grain size and soil type, inspected for visual or olfactory evidence of petroleum impacts and screened in the field with a PID (MiniRae 2000 with 10.6 eV lamp). Either the sample exhibiting the highest PID reading, or in lieu of a high reading, the sample closest to the groundwater interface was submitted for confirmatory laboratory analysis. Field screening results and soil characterization are recorded in the Geologic Logs included in Appendix C.

Groundwater was generally encountered between 3 and 10 feet below grade during the drilling program. Monitoring wells were installed at each location after the soil borings were completed. Ten feet of 0.010-inch slotted polyvinyl chloride (PVC) screen was installed to a depth that spanned the stabilized water table. Please refer to Appendix C for additional details regarding the well completion details.

6.3 Surveying

On November 19, 2013, the LRC Group of Poughkeepsie, New York, a licensed surveyor, was on-site to survey wellhead elevations and location information for the newly installed wells and other Site features. All features were surveyed into available NAD 83 elevation datum. This information was then used to create Figure 2, Site Plan for the subject Site, as well as calculate groundwater flow direction at the Site. Depth to groundwater at all 8 wells was collected prior to well development on November 18, 2013. Refer to Table 1 for wellhead elevations, depth to groundwater and calculated groundwater table elevations, and Figure 3 for calculated groundwater flow direction. The groundwater topography map shows the primary flow direction to the north towards Narragansett Bay, with components of flow to the northeast in the eastern portion of the Site and northwest in the western portion of the Site.

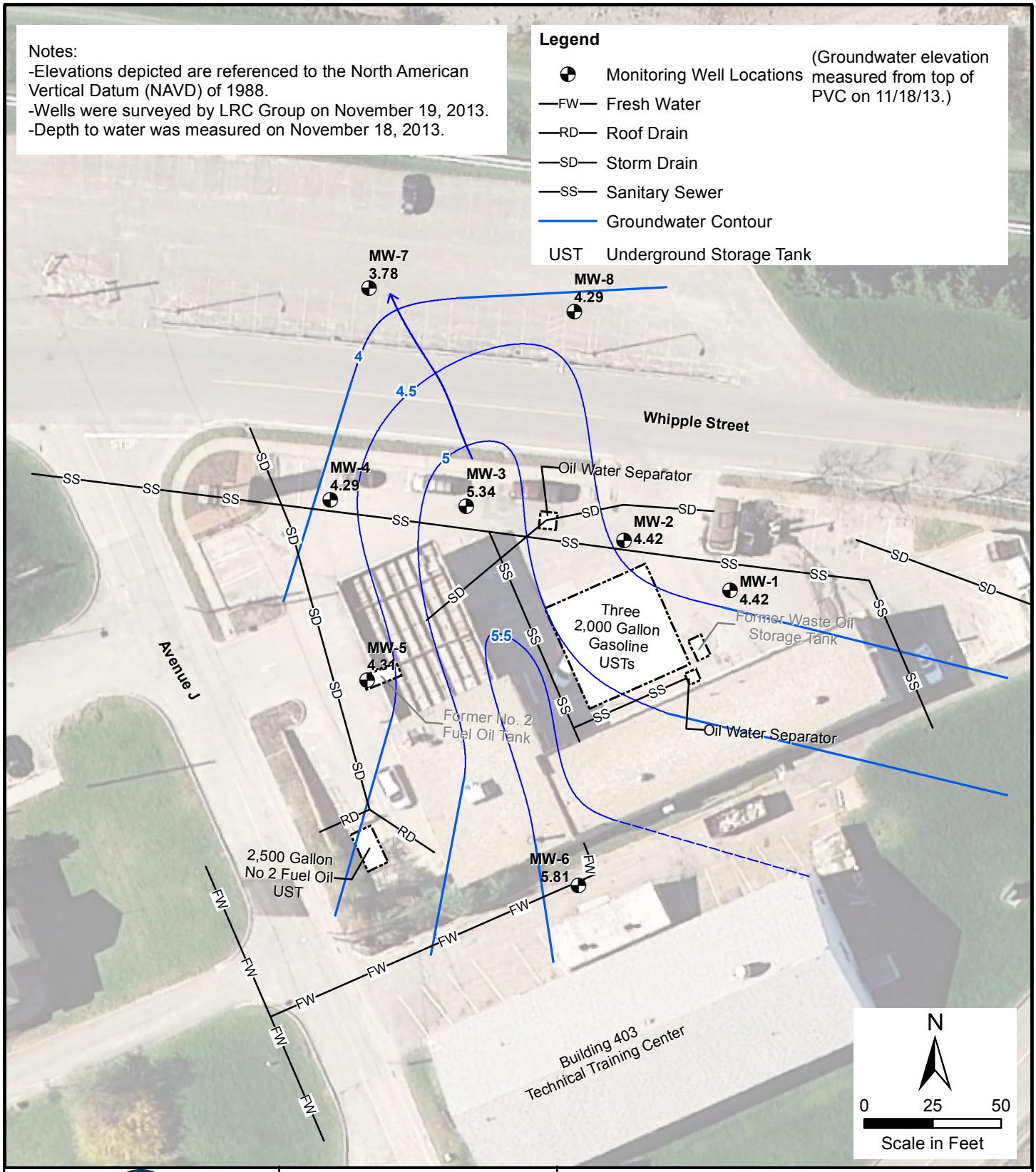
6.4 Well Development

On November 18 through 20, 2013, Resolution Consultants developed the newly installed monitoring wells, following the RIDEM well development requirements summarized in the "Rules and Regulations for Groundwater Quality," (RIDEM, March 2005). Resolution used a Waterra® pump and surge block to develop each well to eliminate the visible silt and turbidity. Visible siltation remained in some of the wells, even after 10 well volumes were removed. After at least a 24-hour period, low-flow purging and sampling was initiated. Due to the high silt content in several of the wells, the turbidity in some of the wells could not be reduced below 50 Nephelometric Turbidity Units (NTUs). As shown on the groundwater sample collection records (Appendix E), NTUs ranged from 18 to 61 NTUs at the time of sample collection. For further well development and groundwater sampling details, refer to Appendix D, Well/Piezometer Development Record and Appendix E, Groundwater Sampling Collection Records.

6.5 Waste Management

Four drums of purge water, one drum of decontamination water and eight drums of soil cuttings were generated during this investigation. On January 7, 2014, TMC Environmental (TMC) of

Bellingham, Massachusetts was on-site to remove the drums for transportation to EP&S of VT Inc., Albany, New York for disposal. A copy of the bill of lading is included as Appendix F.



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Map Location

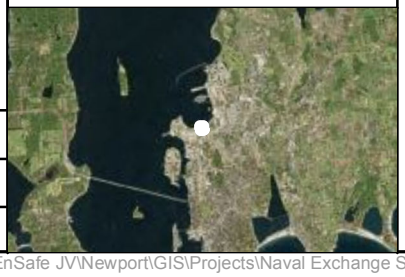

FIGURE 3
POTENTIOMETRIC SURFACE MAP
NOVEMBER 18, 2013
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT, RHODE ISLAND

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TABLE 1 GROUNDWATER ELEVATION DATA
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT, RI
NOVEMBER 18, 2013

Well	Depth to Water (ft)	Depth to Bottom (ft)	Ground Elevation (ft)	Top of PVC Elevation (ft)	GW Elevation (ft)
MW-1	5.91	14.20	10.79	10.33	4.42
MW-2	5.64	13.33	10.50	10.06	4.42
MW-3	5.37	13.74	11.18	10.71	5.34
MW-4	6.01	13.30	10.75	10.30	4.29
MW-5	6.68	12.45	11.62	10.99	4.31
MW-6	10.19	19.43	16.71	16.00	5.81
MW-7	3.45	12.91	7.72	7.23	3.78
MW-8	3.06	13.28	7.91	7.35	4.29

Notes:
ft = Feet
GW = Groundwater
**Survey conducted by LRC on November 19, 2013. Elevations are referenced to the North American Vertical Datum (NAVD) of 1988.
Depth to water measurements were taken from top of PVC.

7.0 ANALYTICAL RESULTS

7.1 Applicable Soil and Groundwater Categories

To determine the applicable Soil and Groundwater Quality Objectives for soil and groundwater, the Groundwater Classification for the subject property was evaluated. Based on the property's location, and according to the RIDEM Groundwater Classification map, the subject property lies within a GB area. Groundwater classified as GB is that groundwater which may not be suitable for drinking water use without treatment due to known or presumed degradation. There is no goal to restore groundwater classified as GB to drinking water quality; however, groundwater remediation may be required in order to protect public health and the environment. Groundwater results are compared to the GB Groundwater Objectives.

Soil results are compared to RIDEM Residential Direct Exposure Criteria (RDEC) and Industrial/ Commercial Direct Exposure Criteria (ICDEC).

7.2 Soil Analysis

Soil samples were collected from each soil boring prior to well installation, MW-1 through MW-8, and submitted based on field observations and screening, as discussed in Section 6.2. The samples were stored on ice in the field and picked up on site via a courier from Katahdin Analytical Services under Chain of Custody (CoC) to their facility in Scarborough, Maine for analysis of volatile organic carbons (VOCs) by EPA Method 8260, TPH, and gasoline range organics (GRO) by EPA Method 8015C (modified to meet RIDEM total TPH criteria objectives).

According to laboratory analytical results, concentrations of TPH were detected in soil samples submitted from all borings. However, concentrations were below the RIDEM RDEC and ICDEC in all soil samples with the exception of RS-MW5, collected prior to the installation of MW-5. In RS-MW5, concentrations of TPH exceeded RIDEM RDEC standard for TPH C10-C36 Bunker Fuel, but was below the ICDEC. No concentrations of VOCs were detected above laboratory method detection limits in any of the samples submitted for analysis. Refer to Figure 4 for soil sample locations, Table 2 for a summary of soil analytical results.

7.3 Groundwater Analysis

Following the development of each well, a peristaltic pump was used to collect groundwater. Groundwater was analyzed in-situ using a YSI for pH, specific conductivity, temperature, dissolved oxygen (DO) and Oxidation-Reduction Potential (ORP) in accordance with the modified Standard

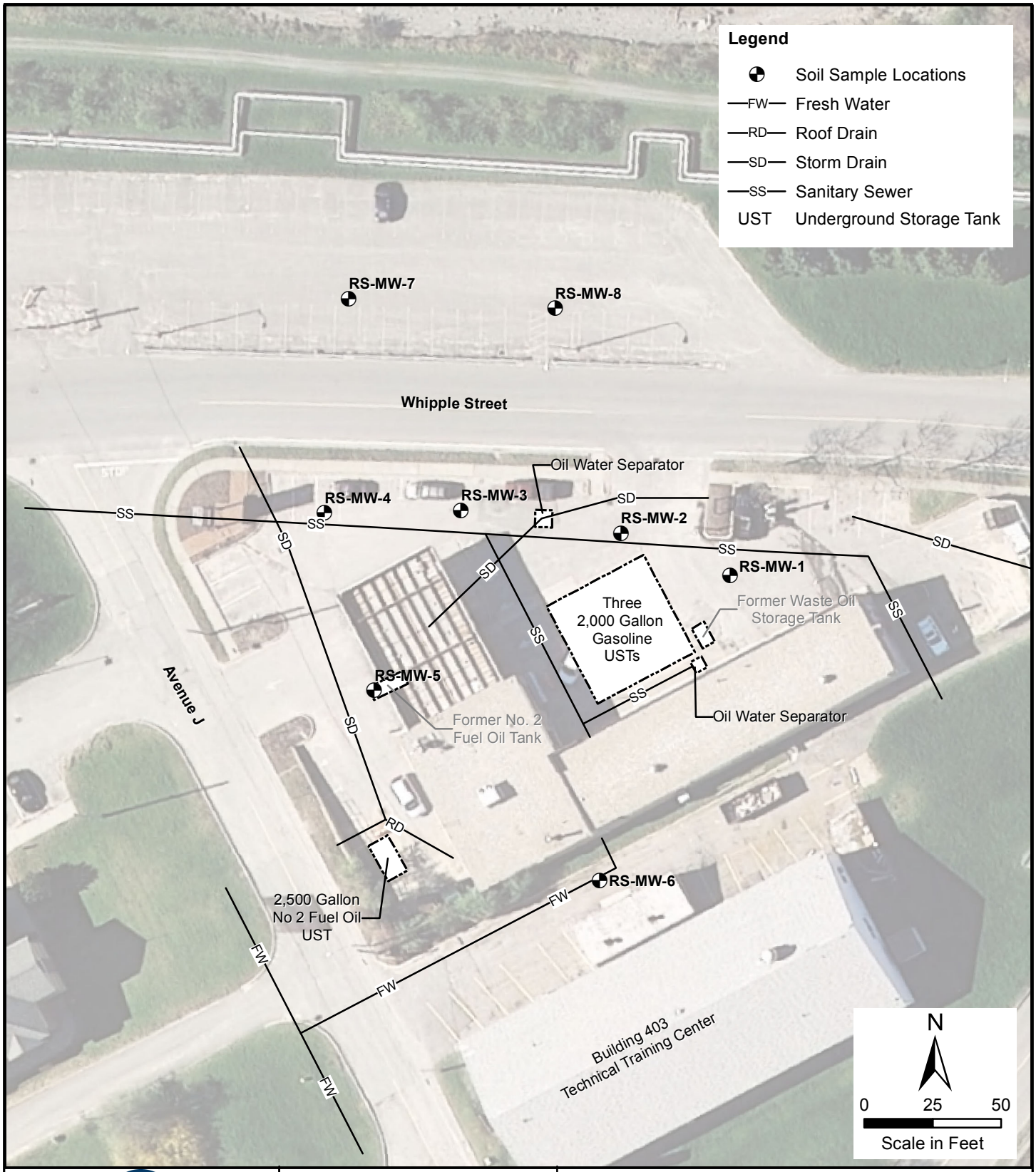
Operating Procedure (SOP) 3-14 and EPA Region 1 Low-Flow Sampling Guidance. Refer to the Low-Flow Sampling Logs in Appendix D for additional details.

Groundwater was submitted for analysis of VOCs (benzene, toluene, ethylbenzene, xylenes [BTEX] and methyl-tert-butyl-ether and [MTBE]). Note that groundwater was not analyzed for TPH because there is no Groundwater Objective established for TPH.

According to laboratory analytical results, concentrations of VOCs were not detected above laboratory method detection limits in any sample, with the exception of MTBE detected at low concentrations in groundwater samples collected from MW-2 and MW-5. These concentrations were below the RIDEM GB Groundwater Objectives. Refer to Figure 3 for monitoring well locations, Table 3 for a summary of groundwater analytical results.

7.4 Data Validation

Limited data validation was conducted for VOC and TPH data packages received from the laboratory. All data was deemed sufficient for its intended purpose. Refer to the data validation memos included in Appendix G. Copies of the laboratory reports have also been included as Appendix H.



RESOLUTION CONSULTANTS

Drawn:	HM	1/13/2014
Approved:	NO	1/13/2014
Project #:	60307272	

Map Location

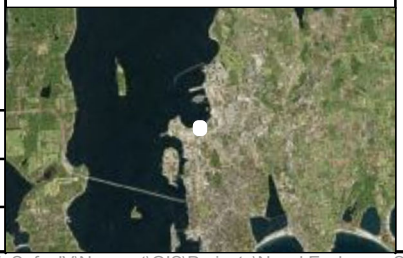


FIGURE 4
SOIL SAMPLE LOCATIONS
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT, RHODE ISLAND

Path: W:\Govt\Projects\Navy CLEAN AECOM-EnSafe JV\Newport\GIS\Projects\Naval Exchange Service Station\Maps\Figure_4_Soil_Sample_Locations.mxd

TABLE 2 SOIL ANALYTICAL RESULTS
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT
NOVEMBER 2013

Chemical Name	RIDEM Residential Soil Criteria	RIDEM Industrial/ Commercial Soil Criteria	Unit	RS-MW1 11/14/2013	RS-MW2 11/15/2013	RS-MW3 11/15/2013	RS-MW4 11/18/2013	RS-MW5 11/18/2013
TOTAL SOLIDS	NS	NS	%	86	84	90	86	86
TPH-C10-C36 BUNKER FUEL	**500**	2500	mg/kg	100	5.5	120	3.8 J	**950**
TPH-GASOLINE RANGE C6-C12	500	2500	mg/kg	< 2.3 U	< 2.4 U	< 2.0 U	< 2.0 U	170 J
BENZENE	2500	200000	ug/kg	< 130 U	< 140 U	< 130 U	< 130 U	< 120 U
ETHYLBENZENE	71000	10000000	ug/kg	< 130 U	< 140 U	< 130 U	< 130 U	< 120 U
M- AND P-XYLENE	NS	NS	ug/kg	< 260 U	< 290 U	< 260 U	< 260 U	< 250 U
METHYL TERT-BUTYL ETHER	390000	10000000	ug/kg	< 130 U	< 140 U	< 130 U	< 130 U	< 120 U
O-XYLENE	NS	NS	ug/kg	< 130 U	< 140 U	< 130 U	< 130 U	< 120 U
TOLUENE	190000	10000000	ug/kg	< 130 U	< 140 U	< 130 U	< 130 U	< 120 U
XYLENES, TOTAL	110000	10000000	ug/kg	< 400 U	< 440 U	< 390 U	< 380 U	< 380 U

Notes:
Red and Bold font indicates exceedance of RIDEM Soil Residential criteria
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
U indicates not detected above report detection limit
J indicates estimated value
NA = Not Analyzed
NS = No Standard
FD = Field Duplicate
% = percent
TPH = Total Petroleum Hydrocarbons

TABLE 2 SOIL ANALYTICAL RESULTS
NAVAL EXCHANGE SERVICE STATION
NAVSTA NEWPORT
NOVEMBER 2013

Chemical Name	RIDEM Residential Soil Criteria	RIDEM Industrial/ Commercial Soil Criteria	Unit	RS-MW5-FD 11/18/2013	RS-MW6 11/15/2013	RS-MW7 11/14/2013	RS-MW8 11/14/2013	TB-SO 11/8/2013
TOTAL SOLIDS	NS	NS	%	86	90	87	78	100
TPH-C10-C36 BUNKER FUEL	**500**	2500	mg/kg	**1100**	86	3.0 J	7.5 J	NA
TPH-GASOLINE RANGE C6-C12	500	2500	mg/kg	140 J	38	< 2.2 U	< 2.6 U	NA
BENZENE	2500	200000	ug/kg	< 130 U	< 140 U	< 120 U	< 160 U	< 120 U
ETHYLBENZENE	71000	10000000	ug/kg	< 130 U	< 140 U	< 120 U	< 160 U	< 120 U
M- AND P-XYLENE	NS	NS	ug/kg	< 260 U	< 270 U	< 240 U	< 320 U	< 250 U
METHYL TERT-BUTYL ETHER	390000	10000000	ug/kg	< 130 U	< 140 U	< 120 U	< 160 U	< 120 U
O-XYLENE	NS	NS	ug/kg	< 130 U	< 140 U	< 120 U	< 160 U	< 120 U
TOLUENE	190000	10000000	ug/kg	< 130 U	< 140 U	< 120 U	< 160 U	< 120 U
XYLENES, TOTAL	110000	10000000	ug/kg	< 390 U	< 400 U	< 360 U	< 470 U	< 380 U

Notes:
Red and Bold font indicates exceedance of RIDEM Soil Residential criteria
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
U indicates not detected above report detection limit
J indicates estimated value
NA = Not Analyzed
NS = No Standard
FD = Field Duplicate
% = percent
TPH = Total Petroleum Hydrocarbons

TABLE 3 GROUNDWATER ANALYTICAL RESULTS
NAVAL EXCHANGE STATION
NAVSTA NEWPORT
NOVEMBER 2013

Chemical Name	RIDEM GB Groundwater Criteria	Unit	RS-MW1 11/20/2013	RS-MW2 11/20/2013	RS-MW3 11/20/2013	RS-MW4 11/21/2013	RS-MW5 11/21/2013
BENZENE	140	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
ETHYLBENZENE	1600	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
M- AND P-XYLENE	NS	ug/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	5000	ug/L	< 0.50 UJ	3.3 J	< 0.50 UJ	< 0.50 UJ	0.72 J
O-XYLENE	NS	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
TOLUENE	1700	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
XYLENES, TOTAL	NS	ug/L	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U

Notes:
Red and Bold font indicates exceedance of RIDEM Groundwater GB criteria
U indicates not detected above report detection limit
J indicates estimate value
ug/L = micrograms per liter
FD = Field Duplicate
NS = No Standard
TB = Trip Blank

TABLE 3 GROUNDWATER ANALYTICAL RESULTS
NAVAL EXCHANGE STATION
NAVSTA NEWPORT
NOVEMBER 2013

Chemical Name	**RIDEM GB Groundwater Criteria**	**Unit**	**RS-MW5-FD** 11/21/2013	**RS-MW6** 11/20/2013	**RS-MW7** 11/20/2013	**RS-MW8** 11/20/2013	**TB-GW** 11/8/2013
BENZENE	140	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
ETHYLBENZENE	1600	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
M- AND P-XYLENE	NS	ug/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
METHYL TERT-BUTYL ETHER	5000	ug/L	0.60 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 U
O-XYLENE	NS	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
TOLUENE	1700	ug/L	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
XYLENES, TOTAL	NS	ug/L	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U

Notes:
Red and Bold font indicates exceedance of RIDEM Groundwater
U indicates not detected above report detection limit
J indicates estimate value
ug/L = micrograms per liter
FD = Field Duplicate
NS = No Standard
TB = Trip Blank

8.0 NATURE AND EXTENT OF CONTAMINATION

The contaminants detected at the Site are petroleum-related compounds. The potential sources and the nature and extent of contamination are discussed in this section.

8.1 Potential Source(s) of Release

The source of release is believed to be the current and historic use of the Site as a petroleum distribution facility and/or the historic fuel oil storage in the vicinity of the southwest canopy footing.

8.2 Light Non-Aqueous Phase Liquid (LNAPL)

No LNAPL was observed by Resolution during the soil boring or monitoring well development/sampling.

8.3 Soil Impacts

Soil impacts were detected in one location (RS-MW5) for TPH C10-C36 Bunker Fuel in excess of RDEC standards. There were no soil samples in excess of ICDEC standards. TPH C10-C36 Bunker Fuel was detected in soil collected from all 8 borings; however, concentrations from borings MW-4, MW-7 and MW-8 were estimated values below 10 mg/kg. The concentration of TPH C10-C36 Bunker Fuel was 950 mg/kg soil sample RS-MW5, the sampling location closest to the dispenser pad and previously noted visual contamination. This result exceeded the RDEC standard of 500 mg/kg, but not the ICDEC standard of 2,500 mg/kg.

8.4 Groundwater Impacts

As discussed in section 7.3, groundwater collected from each monitoring well was analyzed for VOCs (BTEX and MTBE). According to laboratory analytical results, concentrations of VOCs were not detected above laboratory method detection limits in any sample, with the exception of MTBE detected at low concentrations in groundwater samples collected from MW-2 and MW-5. These concentrations were below the RIDEM GB Groundwater Objectives.

9.0 MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

9.1 Migration Pathways

The primary migration pathway for TPH and VOCs released to the subsurface is via groundwater migration, which is estimated to be in a northwesterly direction. Subsurface utilities identified beneath the Site were evaluated as potential migration pathways for contaminants. Stormwater drainage pipes connecting catch basins, a rainwater collection system from the roof of the canopy, sanitary sewer lines and underground electric lines all cross the parking lot near the known impacted area. According to utility plans provided by the Navy, the stormwater and sanitary sewer lines are located between 4 and 7 feet below grade, which would intercept the groundwater tables and be considered potential pathways. However, concentrations of VOCs were all non-detect or below applicable GB groundwater objectives in all Site wells. No other underground utilities were identified as potential preferential pathways for migration of dissolved phase constituents.

9.2 Vapor Migration

Soil samples were screened in the field with a PID during well installation every 2 feet. Only one soil sample exhibited an elevated PID reading. The soil sample collected from 5 to 7 feet in boring RS-MW5 exhibited a PID reading of 116 parts per million (ppm). This measurement was consistent with the analytical results of TPH in soil at that location. The service station and adjacent garage facility are located in close proximity to this area of impacts; however, the building is upgradient and PID readings are minor. Furthermore, no detectable concentrations of VOCs were found in soil and only minor concentrations of MTBE were detected in groundwater collected from MW-5 and MW-2, which are downgradient of the Site building. Therefore, vapor migration to buildings in the vicinity of this investigation is unlikely. No further vapor migration assessment is warranted.

9.3 Potential Receptors

Based on the contaminant concentrations, distribution, and potential migration pathways, the following potential receptors are considered in this Site evaluation.

- Potential contact with soil in the vicinity of RS-MW5 by construction and/or utility workers who could potentially perform work at the Site.

9.4 Exposure Potential

The determination of the potential for exposure to oil and/or hazardous materials (OHM) from the Site is based on the results obtained from work performed for this SIR. No known exposures have occurred. Potential exposures may include the following:

Human Health: The Site is an active service station in an urban environment. Exposure could include inhalation or dermal contact by construction or utility workers performing activities on the Site.

Environmental: The Site investigation area is located approximately 200 feet southeast of Narragansett Bay. No soil or groundwater impacts were observed in the two borings/wells installed between the Site and Narragansett bay; therefore, based on the hydrogeological characteristics and current contaminant migration, there is no environmental exposure potential relative to current Site impacts.

10.0 DEVIATIONS FROM THE WORK PLAN

There were no deviations from the original work plan. All wells were installed in the general vicinity planned and all soil and groundwater samples were collected and analyzed for the planned constituents.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this SIR, Resolution and NAVFAC present the following summary and opinions.

11.1 Summary of Findings

- The NEX Service Station is owned by the U.S. Navy and is located in a secure section of the Newport Naval Base in Newport, Rhode Island. The service station is located on the southeastern corner of Whipple Street and Avenue J. There are currently three 20,000-gallon gasoline USTs and one 2,500-gallon fuel oil UST located at the Site, installed in 1991.
- On April 20, 2013, the contractor replacing the dispenser canopy observed petroleum sheen on the groundwater in one of the Site excavations.
- Resolution Consultants drilled 8 soil borings which were completed as monitoring wells at the Site to assess the potential for petroleum impacts. One soil sample was collected from each boring and groundwater was subsequently sampled from each monitoring well using low-flow sampling procedures. Analytical results indicated that concentrations of petroleum constituents in soil and groundwater at the Site are below the applicable RIDEM RDEC and ICDEC criteria for soil at all but one sampling location. Soil sample RS-MW5, collected from the location where MW-5 was subsequently installed, revealed TPH C10-C36 Bunker Fuel in excess of RDEC standards, but below ICDEC standards. There were no exceedances of parameters analyzed in groundwater in any of the wells.
- Potential receptors and human exposure potentials include inhalation or dermal contact by construction or utility workers performing activities in the vicinity of the Site. The Site is located approximately 200 feet south of Narragansett Bay, therefore potential environmental receptors do exist. However, based on the hydrogeological characteristics and current contaminant concentrations, these areas are not anticipated to be impacted by Site contaminants.

11.2 Recommendations

- Based on current contaminant concentrations and exposure potentials, no further assessment or evaluation of remedial alternatives is warranted. Site conditions are below ICDEC standards, which is consistent with the current industrial site use and foreseeable future site use.

12.0 REPORT CERTIFICATIONS

Pursuant to RIDEM's UST Regulations (RIDEM, 2011, Section 12.09(B)(12)), the following signatures certify that the information contained in this Site Investigation Report is a complete and accurate representation of the Site and the release and that this report contains all known facts surrounding the release, to the best of their knowledge.

Review Signature: Naomi D. Ouellette 01/27/14

Naomi Ouellette, CTO Manager
Resolution Consultants
Date

Approval Signature: Mark D. Kauffman 01/27/14

Mark D. Kauffman, PE
Resolution Consultants
Date

Other Approval Signature: Christ Murray 01/27/14

Christopher Murray, Navy RPM
US Navy
Date

13.0 REFERENCES

Resolution Consultants. 2013. Work Plan, Soil and Groundwater Investigation, Naval Exchange Service Station. Naval Station (NAVSTA) Newport, Rhode Island. October 22, 2013.

Rhode Island Department of Environmental Management Groundwater Division, Rules and Regulations for Groundwater Quality, Groundwater Classification Map, March 2005.

Rhode Island Department of Environmental Management Groundwater Division, Rules and Regulations for Groundwater Quality, Groundwater Classification & Wellhead Protection Area Map, March 2005.

Rhode Island Department of Environmental Management Water Quality, private well completion logs, March 25, 2008.

City of Newport, retrieved from www.cityofnewport.com, zoning map, 2013.

United States Geological Survey, retrieved from http://mrdata.usgs.gov/sgmc/ri.html, Rhode Island geology, May 2013.

Appendix A

RIDEM SIR Request Letter

RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
235 Promenade Street, Providence, RI 02908-5767 TDD 401-222-4462

May 24, 2013

Mr. David D. Dorocz
Environmental Division Director
Naval Station Newport
1 Simonpietri Drive
Newport, RI 02841

Re: Naval Exchange Service Station, Buildings 1285 and 1286 CO, Newport RI
UST Facility ID: 03251; LUST Case No.: LS-2295

Dear Mr. Dorocz:

On April 20, 2013, a construction project at the Naval Exchange Service Station was underway to replace the existing canopy with a new larger canopy, at which time evidence of a petroleum release was discovered and reported to the Department of Environmental Management. As such, "Leak and Release Reporting" was required to be submitted in accordance with corresponding Rule 12.04 of RIDEM's *Rules and Regulations For Underground Storage Facilities Used For Petroleum Products and Hazardous Materials*, or *UST Regulations* (effective April 2011).

The UST Management Program of the Office of Waste Management has reviewed the "Suspected Release at NEX Gas Station – Fac ID 03251" report received on May 23, 2013 via electronic mail for the above-referenced facility. Based on the results of this report, a site investigation must be conducted and a Site Investigation Report ("SIR") must be submitted to the Department in accordance with Rules 12.08 and 12.09 of the *UST Regulations* within sixty (60) days (07/24/2013) or in accordance with an approved alternate schedule.

The *UST Regulations* require that all work be performed by a qualified environmental consultant. Rule 12.09(B) (9) of the *UST Regulations* requires that a minimum of three monitoring wells be installed to define the nature and extent of groundwater contamination. It is strongly suggested that a site plan with proposed locations be submitted to the Department prior to initiation of the site investigation. The Department may require "the collection and submission of additional information where a SIR is found to be incomplete or deficient or does not provide sufficient data to identify the extent of the contamination plume" (Rule 12.10 of the *UST Regulations*). Upon review of the complete SIR, the Department may require the development of a Corrective Action Plan.

If you have any questions regarding this matter, please contact the undersigned at (401) 222-2797 extension 7121.

Sincerely,

Sofia M. Kaczor

Sofia M. Kaczor, CPG
Principal Environmental Scientist
UST Management Program / Office of Waste Management

Cc: Kevin Gillen, OWM / RIDEM

30% post-consumer fiber

Appendix B

EDR Database Report and Historical Documents

NEX Service Station
85-2 WHIPPLE ST
Newport, RI 02841

Inquiry Number: 3723834.3
September 11, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/11/13

Site Name:
NEX Service Station
85-2 WHIPPLE ST
Newport, RI 02841

Client Name:
AECOM
95 State Road
Sagamore Beach, MA 02562

EDR Inquiry # 3723834.3

Contact: Naomi Ouellette

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by AECOM were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

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Address: 85-2 WHIPPLE ST
City, State, Zip: Newport, RI 02841
Cross Street:
P.O. # 60307272
Project: NEX Service Station
Certification # DFEF-4699-A517

Maps Provided:

1921

Sanborn® Library search results
Certification # DFEF-4699-A517

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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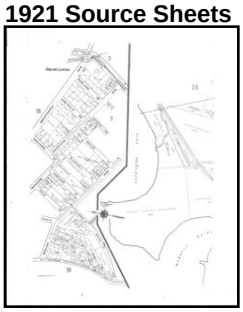
Sanborn Sheet Thumbnails

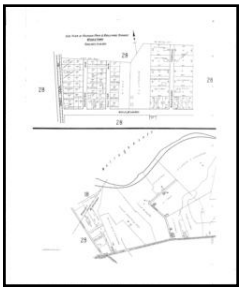
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1921 Source Sheets



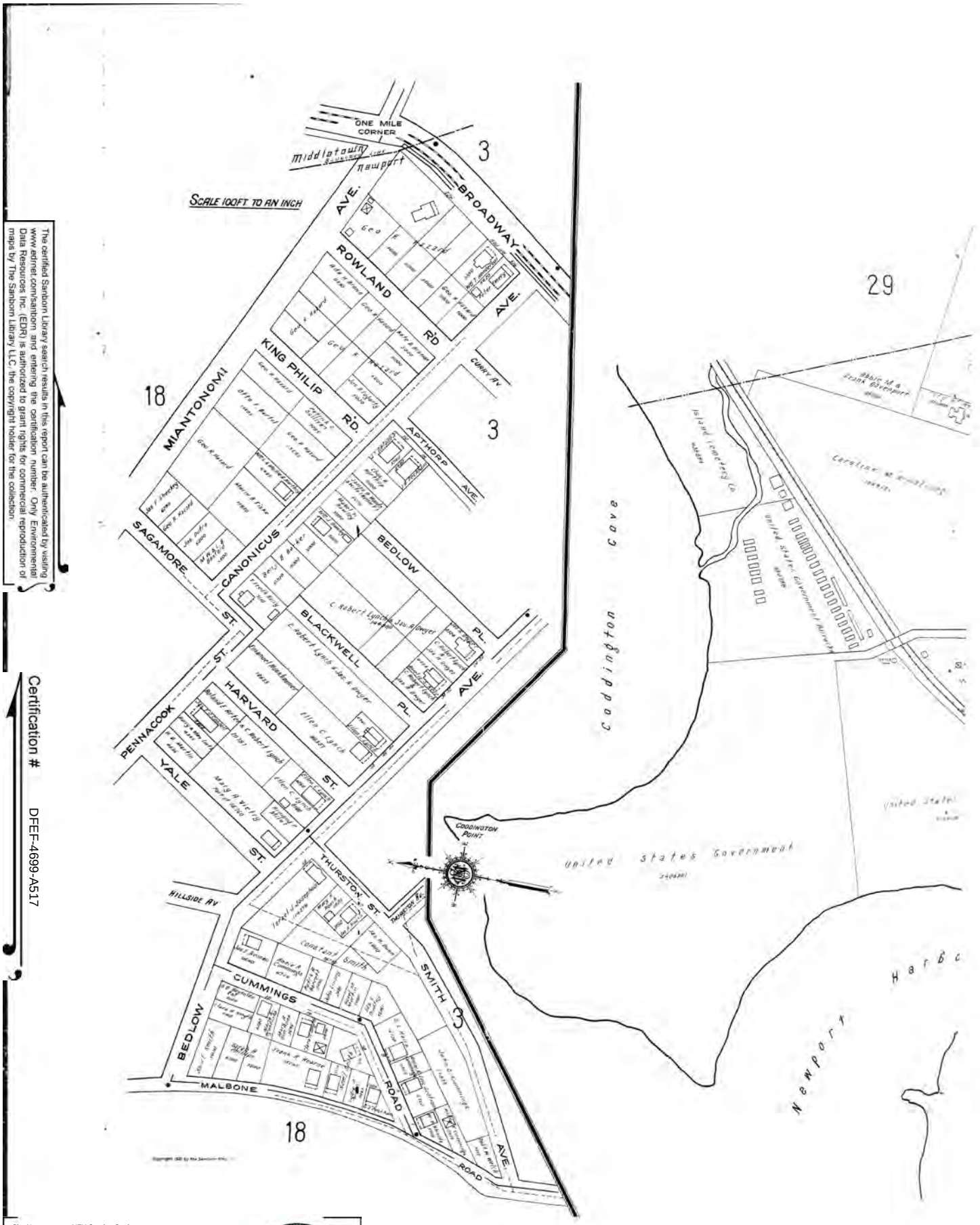
Volume 1, Sheet 18

Volume 1, Sheet 18



Volume 1, Sheet 29

1921 Certified Sanborn Map



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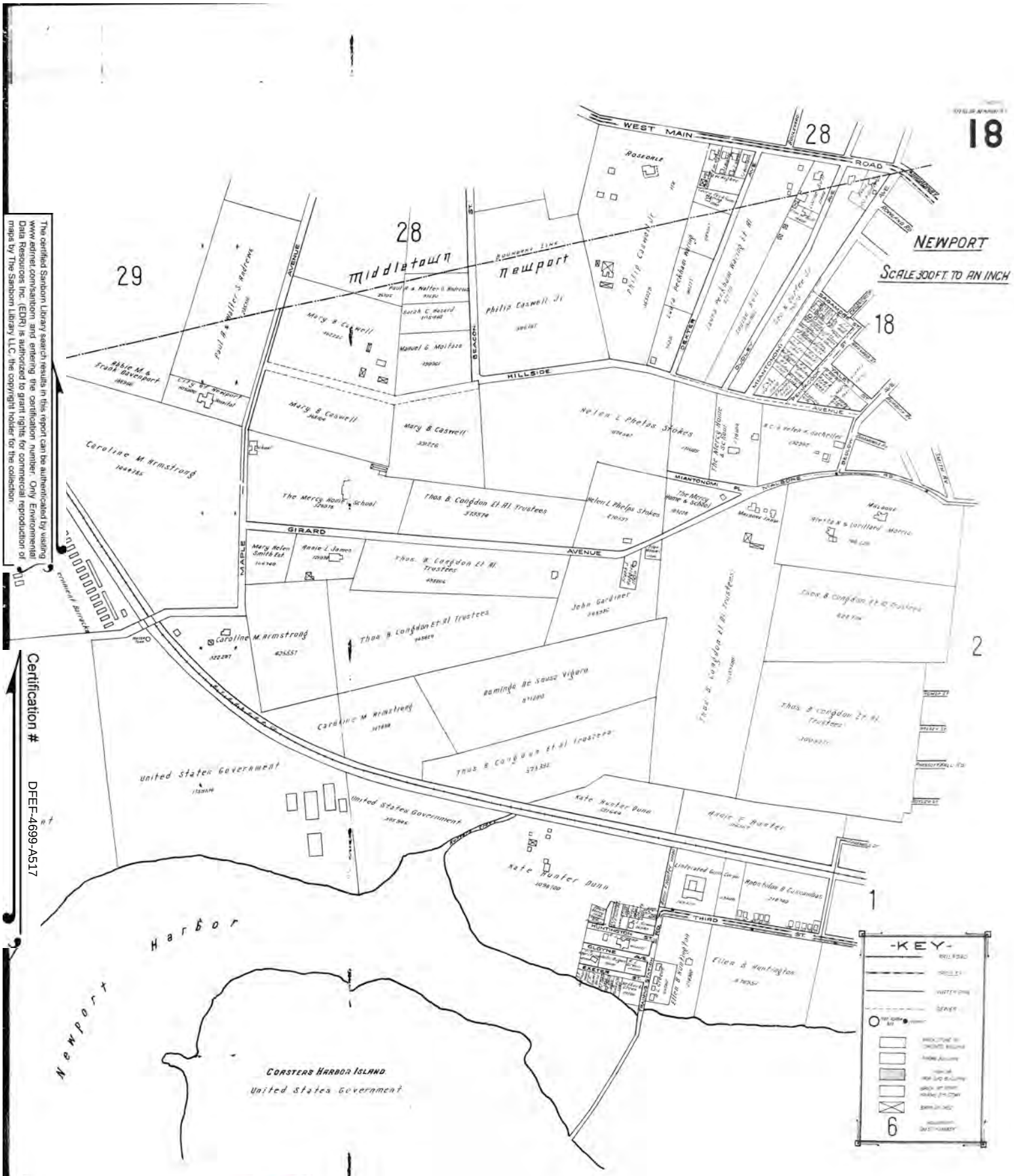

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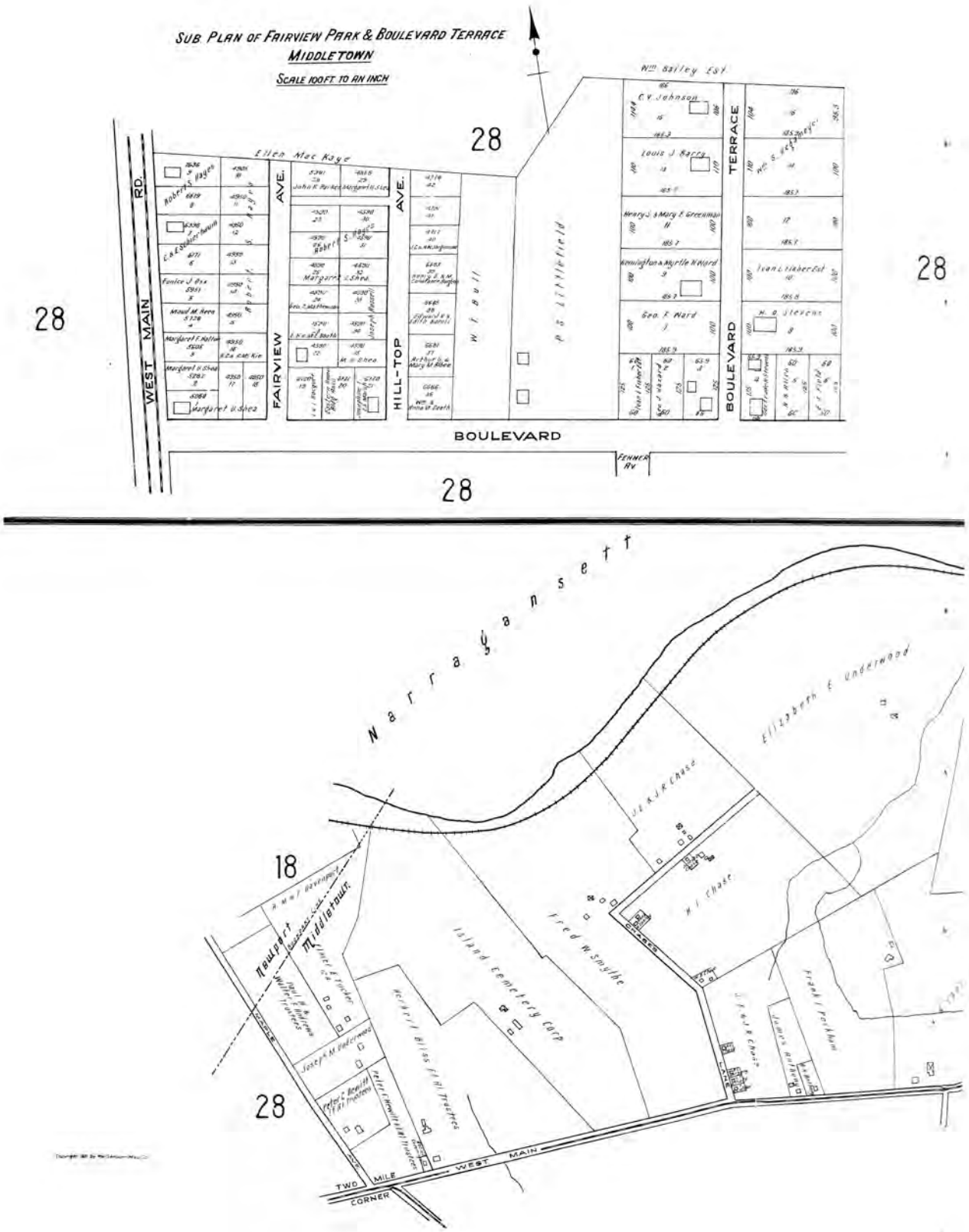

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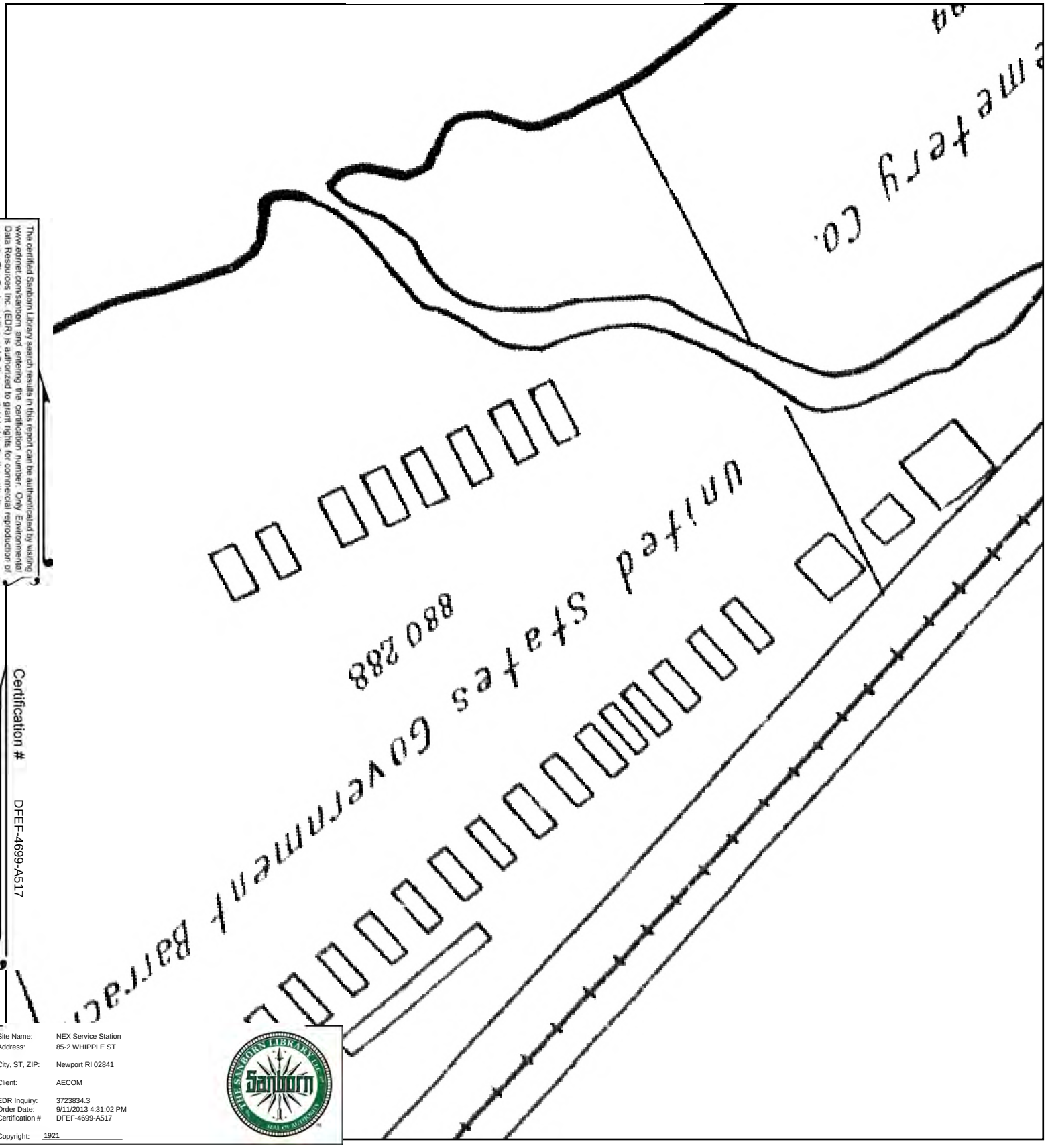

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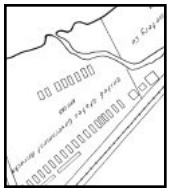

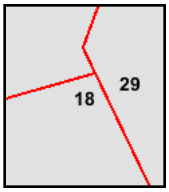

Volume 1, Sheet 18
Volume 1, Sheet 18
Volume 1, Sheet 29

N

NEX Service Station
85-2 WHIPPLE ST
Newport, RI 02841

Inquiry Number: 3723834.5
September 12, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography September 12, 2013

Target Property:

85-2 WHIPPLE ST

Newport, RI 02841

Year	***Scale***	***Details***	***Source***
1938	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: December 13, 1938	EDR
1951	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: October 20, 1951	EDR
1962	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: April 27, 1962	EDR
1969	Aerial Photograph. Scale: 1"=1000'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: September 13, 1969	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: March 10, 1970	EDR
1981	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: April 13, 1981	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/DOQQ - acquisition dates: March 29, 1995	EDR
1996	Aerial Photograph. Scale: 1"=750'	Panel #: 41071-E3, Prudence Island, RI;/Flight Date: May 07, 1996	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Year: 2008	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-E3, Prudence Island, RI;/Flight Year: 2012	EDR


INQUIRY #: 3723834.5
YEAR: 1938
= 500'
N


INQUIRY #: 3723834.5
YEAR: 1951
= 500'
N

INQUIRY #: 3723834.5

YEAR: 1962

= 500'

N


INQUIRY #: 3723834.5
YEAR: 1969
= 1000'
N


INQUIRY #: 3723834.5
YEAR: 1970
= 500'
N


INQUIRY #: 3723834.5
YEAR: 1981
= 500'
N


INQUIRY #: 3723834.5
YEAR: 1995
= 500'
N


INQUIRY #: 3723834.5
YEAR: 1996
= 750'
N


INQUIRY #: 3723834.5
YEAR: 2005
= 500'
N


INQUIRY #: 3723834.5
YEAR: 2006
= 500'
N


INQUIRY #: 3723834.5
YEAR: 2008
= 500'
N


INQUIRY #: 3723834.5
YEAR: 2010
= 500'
N


INQUIRY #: 3723834.5
YEAR: 2012
= 500'
N

NEX Service Station
85-2 WHIPPLE ST
Newport, RI 02841

Inquiry Number: 3723834.2s
September 11, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

85-2 WHIPPLE ST
NEWPORT, RI 02841

COORDINATES

Latitude (North):	41.5192000 - 41° 31' 9.12''
Longitude (West):	71.3156000 - 71° 18' 56.16''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	306779.0
UTM Y (Meters):	4598772.0
Elevation:	30 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41071-E3 PRUDENCE ISLAND, RI
Most Recent Revision:	2000

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2012
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

RI SWF/LF ---------- Solid Waste Management Facilities
RI LCP ---------- Landfill Closure Program Sites in RI

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

RI AST ---------- Aboveground Storage Tanks
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

EXECUTIVE SUMMARY

State and tribal Brownfields sites

RI BROWNFIELDS ---------- Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
RI CDL ---------- Clandestine Drug Lab Information Listing
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
RI SPILLS ---------- Oil & Hazardous Material Response Log/Spill Report
RI SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---------- RCRA - Non Generators
DOT OPS ---------- Incident and Accident Data
FUDS ---------- Formerly Used Defense Sites
CONSENT ---------- Superfund (CERCLA) Consent Decrees
ROD ---------- Records Of Decision
UMTRA ---------- Uranium Mill Tailings Sites
US MINES ---------- Mines Master Index File
TRIS ---------- Toxic Chemical Release Inventory System
TSCA ---------- Toxic Substances Control Act
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ---------- Section 7 Tracking Systems
ICIS ---------- Integrated Compliance Information System
PADS ---------- PCB Activity Database System
MLTS ---------- Material Licensing Tracking System
RADINFO ---------- Radiation Information Database
RAATS ---------- RCRA Administrative Action Tracking System
RMP ---------- Risk Management Plans

RI DRYCLEANERS Drycleaner Facility Listing
RI NPDES Permit and Facility Data
RI AIRS Air Emissions Listing
RI LEAD Lead Inspections Database
INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
RI Financial Assurance Financial Assurance Information
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
US AIRS Aerometric Information Retrieval System Facility Subsystem
PRP Potentially Responsible Parties
2020 COR ACTION 2020 Corrective Action Program List
LEAD SMELTERS Lead Smelter Sites
PCB TRANSFORMER PCB Transformer Registration Database
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 04/26/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOD/NETC/CODDINGTON RUBBLE FIL	***FAREWELL AVENUE & CONRAD***	***ENE 1/8 - 1/4 (0.167 mi.)***	***2***	***10***

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/18/2013 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R I PUBLIC TRANSIT AUTHORITY	***350 CODDINGTON HWY***	***SSE 0 - 1/8 (0.122 mi.)***	***1***	***7***
COMMUNITY COLLEGE OF RI NEWPOR	***1 JOHN H CHAFFEE BLVD***	***SE 1/8 - 1/4 (0.171 mi.)***	***A3***	***12***

State- and tribal - equivalent CERCLIS

RI SHWS: This list includes sites that have been investigated under the Federal CERCLIS program ("SFA" sites) as well as sites that have notified under the state program or have been investigated for hazardous substances ("HWM" sites).

A review of the RI SHWS list, as provided by EDR, and dated 08/02/2013 has revealed that there are 17 RI SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TONOMY HILL REVITALIZATION - P Facility Status: Active	MAPLE AVENUE & GIRARD A	SSE 1/8 - 1/4 (0.239 mi.)	B5	16
TONOMY HILL REVITALIZATION - P Facility Status: Active Facility Status: Inactive	***MAPLE & GIRARD AVENUES***	***SSE 1/8 - 1/4 (0.239 mi.)***	***B6***	***17***
GETTY SERVICE STATION - #68002 Facility Status: Active	***10 CODDINGTON HWY***	***E 1/2 - 1 (0.510 mi.)***	***12***	***20***
MOBIL STATION Facility Status: Inactive	***163 J. T. CONNELL HIGHW***	***SSW 1/2 - 1 (0.541 mi.)***	***13***	***21***
PARK HOLM - HOUSING AUTHORITY Facility Status: Active	120 HILLSIDE AVENUE	SSE 1/2 - 1 (0.737 mi.)	15	22
WEST MARINE INC Facility Status: Inactive	***379 W MAIN RD***	***ESE 1/2 - 1 (0.750 mi.)***	***16***	***22***
MARRIOTT RESIDENCE INN Facility Status: Active Facility Status: Inactive	***325 WEST MAIN ROAD***	***ESE 1/2 - 1 (0.762 mi.)***	***D17***	***25***
NEWPORT CITY DUMP Facility Status: Inactive	ADMIRAL KALBFUS ROAD	S 1/2 - 1 (0.767 mi.)	E18	26
FIRST BRISTOL CORP Facility Status: Inactive	***317 WEST MAIN ROAD***	***ESE 1/2 - 1 (0.768 mi.)***	***D19***	***26***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JAI ALAI Facility Status: Active	***150 ADMIRAL KALBFUS ROA***	***S 1/2 - 1 (0.787 mi.)***	***E20***	***26***
ROLLING GREEN VILLAGE APARTMEN Facility Status: Active	105 ADMIRAL KAUFBUS ROA	SSE 1/2 - 1 (0.803 mi.)	21	27
FREITAS PROPERTY Facility Status: Active	***741 WEST MAIN ROAD***	***ENE 1/2 - 1 (0.866 mi.)***	***F22***	***27***
SULLIVAN SCHOOL Facility Status: Active	***35 DEXTER AVENUE***	***SE 1/2 - 1 (0.878 mi.)***	***23***	***27***
TONI MARINE SALES AND SERVICE Facility Status: Active	759 WEST MAIN ROAD	ENE 1/2 - 1 (0.885 mi.)	F24	28
AQUIDNECK GROUP Facility Status: Active	***99 EAST MAIN ROAD***	***E 1/2 - 1 (0.941 mi.)***	***25***	***28***

Lower Elevation	Address	Direction / Distance	Map ID	Page
R.K. FESTIVAL SHOPPES Facility Status: Active	199 CONNELL HIGHWAY	SSW 1/4 - 1/2 (0.485 mi.)	11	19
U - HAUL Facility Status: Inactive	111 J.T. CONNELL HIGHWA	S 1/2 - 1 (0.610 mi.)	14	21

State and tribal leaking storage tank lists

RI LUST: The LUST Case List is a summary of UST Facilities in RI with leaking USTs, which includes information on the date of release discovery and the status of the LUST Case (active, soil removal only, or inactive).

A review of the RI LUST list, as provided by EDR, and dated 05/01/2013 has revealed that there are 3 RI LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HILL MART Facility Status: Soil Removal Only; No Further Action Required	295 CONNELL HIGHWAY	S 1/4 - 1/2 (0.290 mi.)	C8	18
BELL ATLANTIC Facility Status: Inactive; Investigation/Remed. Complete,No Further Action Required	286 CONNELL HIGHWAY	S 1/4 - 1/2 (0.311 mi.)	C9	18
FESTIVAL FIELD APARTMENTS Facility Status: Inactive; Investigation/Remed. Complete,No Further Action Required	***90 GIRARD AVE***	***SSE 1/4 - 1/2 (0.474 mi.)***	***10***	***18***

State and tribal institutional control / engineering control registries

RI AUL: This list was developed by RIDEM for use as a general reference and are not meant to be legally authoritative source for the location of hazardous materials, nor for the status, condition or permissible use of a site.

A review of the RI AUL list, as provided by EDR, and dated 08/09/2013 has revealed that there are 2

RI AUL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TONOMY HILL REVITALIZATION - P	***MAPLE & GIRARD AVENUES***	***SSE 1/8 - 1/4 (0.239 mi.)***	***B6***	***17***
TONOMY HILL REVITALIZATION - P	MAPLE AND GIRARD AVENUE	SSE 1/8 - 1/4 (0.239 mi.)	B7	17

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEWPORT NAVAL EDUCATIONAL AND		0 - 1/8 (0.000 mi.)	0	7

RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2012 has revealed that there are 2 RI MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R I PUBLIC TRANSIT AUTHORITY	***350 CODDINGTON HWY***	***SSE 0 - 1/8 (0.122 mi.)***	***1***	***7***
COMMUNITY COLLEGE OF RI NEWPOR	***1 JOHN H CHAFFEE BLVD***	***SE 1/8 - 1/4 (0.171 mi.)***	***A3***	***12***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2012 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COMMUNITY COLLEGE OF RI NEWPOR	1 JOHN H CHAFFEE BLVD	SE 1/8 - 1/4 (0.171 mi.)	A4	15

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
	FINDS,MANIFEST,MANIFEST,RCRA-NLR,RAATS,AIRS (AFS)
NAVAL STATION NEWPORT PUBLIC WORKS	CORRACTS,RCRA-TSDF,MANIFEST,MANIFEST,MANIFEST,AIRS
AARDVARK ANTIQUES	AUL,HWS
NATIONAL GRID PROPERTY - NEWPORT	HWS
HARRISON AVENUE DUMP	CERCLIS-NFRAP,HWS
ROSE ISLAND	CERCLIS-NFRAP,HWS
NEWPORT VOCATIONAL SCHOOL	HWS
NAS FIREFIGHTING AREA	HWS
NEWPORT BIODEISEL	AST
DEPT. OF THE NAVY-BUILDING #68	AST
ExxonMobil Oil Corp 01-235	FINDS,MANIFEST,MANIFEST,RCRA-NLR
Colbea Enterprises, LLC	FINDS,RCRA-NLR,MANIFEST
BOWLER REALTY	FINDS,RCRA-NLR,MANIFEST
NEW ENGLAND TELEPHONE CO	RCRA-SQG,MANIFEST
SIPCO SERVICES	MANIFEST
R I BACKPANEL	MANIFEST
US NAVAL STATION-NEWPORT	MANIFEST
US NAVY SUPERVISOR OF SHIPBUILDING	FINDS,RCRA-NLR
NYNEX	FINDS,RCRA-NLR
SUNOCO SERVICE STATION	FINDS,RCRA-NLR

OVERVIEW MAP - 3723834.2s

0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	NEX Service Station	CLIENT:	AECOM
ADDRESS:	85-2 WHIPPLE ST Newport RI 02841	CONTACT:	Naomi Ouellette
LAT/LONG:	41.5192 / -71.3156	INQUIRY #:	3723834.2s
		DATE:	September 11, 2013 12:57 pm

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DETAIL MAP - 3723834.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: NEX Service Station	CLIENT: AECOM
ADDRESS: 85-2 WHIPPLE ST Newport RI 02841	CONTACT: Naomi Ouellette
LAT/LONG: 41.5192 / -71.3156	INQUIRY #: 3723834.2s DATE: September 11, 2013 1:00 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	1	0	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
RI SHWS	1.000		0	2	1	14	NR	17
State and tribal landfill and/or solid waste disposal site lists								
RI SWF/LF	0.500		0	0	0	NR	NR	0
RI LCP	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
RI LUST	0.500		0	0	3	NR	NR	3
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
RI UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RI AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
RI AUL	0.500		0	2	0	NR	NR	2
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
RI BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
RI CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
RI SPILLS	TP		NR	NR	NR	NR	NR	0
RI SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		1	0	0	0	NR	1
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RI MANIFEST	0.250		1	1	NR	NR	NR	2
NY MANIFEST	0.250		0	1	NR	NR	NR	1
RI DRYCLEANERS	0.250		0	0	NR	NR	NR	0
RI NPDES	TP		NR	NR	NR	NR	NR	0
RI AIRS	TP		NR	NR	NR	NR	NR	0
RI LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
RI Financial Assurance	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **NEWPORT NAVAL EDUCATIONAL AND TRAINING CENTER** **DOD** **CUSA117529**
Region **N/A**

NEWPORT NAVAL EDUCATIONAL (County), RI

< 1/8
1 ft.

DOD:
Feature 1: Navy DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Newport Naval Educational and Training Center
Name 2: Not reported
Name 3: Not reported
State: RI
DOD Site: Yes
Tile name: RINEWPORT

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1 **R I PUBLIC TRANSIT AUTHORITY** **RCRA-SQG** **1001081319**
SSE **350 CODDINGTON HWY** **FINDS** **RIR000013078**
< 1/8 **MIDDLETOWN, RI 02842** **RI MANIFEST**
0.122 mi.
644 ft.

Relative:
Higher

Actual:
50 ft.

RCRA-SQG:
Date form received by agency: 04/01/2010
Facility name: R I PUBLIC TRANSIT AUTHORITY
Facility address: 350 CODDINGTON HWY
MIDDLETOWN, RI 02842
EPA ID: RIR000013078
Mailing address: MELROSE STREET
PROVIDENCE, RI 02907
Contact: THOMAS L CLUPNY
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (401) 784-9500
Telephone ext.: 147
Contact email: TCLUPNY@RIPTA.COM
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: RHODE ISLAND PUBLIC TRANSIT AUTHORITY
Owner/operator address: 265 MELROSE STREET
PROVIDENCE, RI 02907
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 01/13/1993
Owner/Op end date: Not reported

Owner/operator name: RI PUBLIC TRANSTI AUTH

R I PUBLIC TRANSIT AUTHORITY (Continued) **1001081319**

Owner/operator address: 265 MELROSE ST
PROVIDENCE, RI 02907
Owner/operator country: Not reported
Owner/operator telephone: (401) 784-9578
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RHODE ISLAND PUBLIC TRANSIT AUTHORITY
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 01/13/1993
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

Historical Generators:
Date form received by agency: 02/08/2008
Facility name: R I PUBLIC TRANSIT AUTHORITY

R I PUBLIC TRANSIT AUTHORITY (Continued) **1001081319**

Site name: RHODE ISLAND PUBLIC TRANSIT AUTHORITY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/05/1995
Facility name: R I PUBLIC TRANSIT AUTHORITY
Site name: RI PUBLIC TRANSIT AUTH
Classification: Not a generator, verified

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: R010
Waste name: WASTE OIL

Waste code: R010
Waste name: WASTE OIL

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: R010
Waste name: WASTE OIL

Violation Status: No violations found

FINDS:

Registry ID: 110004932789

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

RI MANIFEST:
GEN Cert Date: 3/14/2001
Transporter Receipt Date: Not reported
Number Of Containers: 0

R I PUBLIC TRANSIT AUTHORITY (Continued) **1001081319**

Container Type:	Not reported
Waste Code1:	CR02
Waste Code2:	MA99
Waste Code3:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	ZECCO INC
TSDF ID:	MAD052924495
TSDF Date:	Not reported
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Manifest Docket Number:	MAM722321
Waste Description:	COMBUST LIQ
Quantity:	30
WT/Vol Units:	G
Item Number:	1
Transporter Name:	UNITED IND SVS
Transporter EPA ID:	CTD021816889
GEN Cert Date:	3/14/2001
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	RIR000013078
Transporter 2 ID:	Not reported

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2 **DOD/NETC/CODDINGTON RUBBLE FILL** **CERCLIS** **1000141276**
ENE **FAREWELL AVENUE & CONRAIL TRACKS** **FINDS** **RID981066111**
1/8-1/4 **NEWPORT, RI**
0.167 mi.
884 ft.

Relative:
Higher

Actual:
30 ft.

CERCLIS:

Site ID:	0101373
EPA ID:	RID981066111
Facility County:	NEWPORT
Short Name:	DOD/NETC/CODDINGTON RUBBL
Congressional District:	01
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	01090004
Federal Facility:	Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	0101431
RST Code:	Not reported
EPA Region:	01
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	USNV
Non NPL Status:	Not reported

DOD/NETC/CODDINGTON RUBBLE FILL (Continued) **1000141276**

Non NPL Status Date: / /
Site Fips Code: 44005
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 13004278.00000
Contact Name: Not reported
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: NAVY IAS - 3/83. NAVY CS DUE - 7/85. EPA NAVY SITE REVIEW - 8/84. NAVY IAS RECOMMENDED NO FURTHER ACTION AT THIS SITE. REFUSE CONSISTS OF DEMOLITION DEBRIS. OWNER: NETC.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 05/02/85
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/20/85
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

FINDS:

Registry ID: 110009310361

Environmental Interest/Information System
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

A3
SE
1/8-1/4
0.171 mi.
905 ft.

COMMUNITY COLLEGE OF RI NEWPORT COUNTY
1 JOHN H CHAFFEE BLVD
NEWPORT, RI 02840

RCRA-SQG **1007265022**
RI MANIFEST **RIR000504407**

Site 1 of 2 in cluster A

Relative:
Higher

Actual:
60 ft.

RCRA-SQG:

Date form received by agency:	02/02/2004
Facility name:	COMMUNITY COLLEGE OF RI NEWPORT COUNTY
Facility address:	1 JOHN H CHAFFEE BLVD NEWPORT, RI 02840
EPA ID:	RIR000504407
Mailing address:	LOUISQUISSETT PIKE LINCOLN, RI 02865
Contact:	EMANUEL G TEREZAKIS
Contact address:	LOUISQUISSETT PIKE LINCOLN, RI 02865
Contact country:	Not reported
Contact telephone:	(401) 333-7140
Contact email:	Not reported
EPA Region:	01
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RI BOARD OF GOV FOR HIGHER ED/CCRI
Owner/operator address:	JOHN H CHAFEE BLVD NEWPORT, RI 02840
Owner/operator country:	US
Owner/operator telephone:	(401) 333-7140
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2004
Owner/Op end date:	Not reported

Owner/operator name:	CCRI NEWPORT COUNTY CAMPUS
Owner/operator address:	JOHN H CHAFEE BLVD NEWPORT, RI 02840
Owner/operator country:	US
Owner/operator telephone:	(401) 333-7140
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

COMMUNITY COLLEGE OF RI NEWPORT COUNTY (Continued) **1007265022**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

COMMUNITY COLLEGE OF RI NEWPORT COUNTY (Continued) **1007265022**

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: R003
Waste name: FLAMMABLE WASTE

Waste code: R004
Waste name: CORROSIVE WASTE

Violation Status: No violations found

RI MANIFEST:
GEN Cert Date: 12/14/2006
Transporter Receipt Date: 12/14/2006
Number Of Containers: 1
Container Type: DF
Waste Code1: D005D005R011
Waste Code2: Not reported
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: NORTHLAND ENVIRONMENTAL, INC
TSDF ID: RID040098352
TSDF Date: Not reported
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: 002138178JJK
Waste Description: WASTE TOXIC, LIQUIDS, ORGANIC, N.O.S.
Quantity: 60
WT/Vol Units: P
Item Number: 004
Transporter Name: 21ST CENTURY ENV MGT INC,OF RI
Transporter EPA ID: RID980906986
GEN Cert Date: 12/14/2006

COMMUNITY COLLEGE OF RI NEWPORT COUNTY (Continued) **1007265022**

Transporter Recpt Date:	12/14/2006
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	RIR000504407
Transporter 2 ID:	Not reported

A4 **COMMUNITY COLLEGE OF RI NEWPORT COUNTY** **NY MANIFEST** **S110305594**
SE **1 JOHN H CHAFFEE BLVD** **N/A**
1/8-1/4 **NEWPORT, RI 02840**
0.171 mi.
905 ft. **Site 2 of 2 in cluster A**

Relative:
Higher

Actual:
60 ft.

NY MANIFEST:

EPA ID:	RIR000504407
Country:	USA
Mailing Name:	COMMUNITY COLLEGE OF RI NEWPORT COUNTY
Mailing Contact:	KEN MCCABE
Mailing Address:	400 EAST AVENUE
Mailing Address 2:	Not reported
Mailing City:	WARWICK
Mailing State:	RI
Mailing Zip:	02886
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-28
Trans1 Recv Date:	2010-01-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-02-09
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	RIR000504407
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	15.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	002861647FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

COMMUNITY COLLEGE OF RI NEWPORT COUNTY (Continued) **S110305594**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-28
Trans1 Recv Date:	2010-01-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-02-09
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	RIR000504407
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	15.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	002861647FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

B5 **TONOMY HILL REVITALIZATION - PHASE 3 A** **RI SHWS** **S106859337**
SSE **MAPLE AVENUE & GIRARD AVENUE** **N/A**
1/8-1/4 **NEWPORT, RI**
0.239 mi.
1261 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
90 ft.

SHWS:

Project Code:	TH3A-HWM
Facility Status:	**Active**
Project Code Desc:	TH3A-HWM
Project Date:	03/14/2005

Project Code:	TH3B-HWM
Facility Status:	**Active**
Project Code Desc:	TH3B-HWM
Project Date:	03/14/2005

TONOMY HILL REVITALIZATION - PHASE 3 A (Continued) **S106859337**

Project Code: TH3C-HWM
Facility Status: Active
Project Code Desc: TH3C-HWM
Project Date: 03/14/2005

B6 **TONOMY HILL REVITALIZATION - PHASE 1-B** **RI SHWS** **S106664172**
SSE **MAPLE & GIRARD AVENUES** **RI AUL** **N/A**
1/8-1/4 **NEWPORT, RI**
0.239 mi.
1261 ft. **Site 2 of 3 in cluster B**

Relative: Higher

Actual: 90 ft.

SHWS:
Project Code: TH1B-HWM
Facility Status: Inactive
Project Code Desc: TH1B-HWM
Project Date: 05/07/2002

Project Code: THP2-HWM
Facility Status: Active
Project Code Desc: THP2-HWM
Project Date: 10/28/2003

Project Code: TH2B-HWM
Facility Status: Active
Project Code Desc: TH2B-HWM
Project Date: 05/07/2002

Project Code: TH2C-HWM
Facility Status: Active
Project Code Desc: TH2C-HWM
Project Date: 05/07/2002

Project Code: TNMY-HWM
Facility Status: Inactive
Project Code Desc: TNMY-HWM
Project Date: 05/07/2002

AUL:
ELUR Date: 12/21/2004
Count Of Town: 1
Facility Size (Acres): 2.54

B7 **TONOMY HILL REVITALIZATION - PHASE I-A** **RI AUL** **S107459436**
SSE **MAPLE AND GIRARD AVENUES** **N/A**
1/8-1/4 **NEWPORT, RI**
0.239 mi.
1261 ft. **Site 3 of 3 in cluster B**

Relative: Higher

Actual: 90 ft.

AUL:
ELUR Date: 12/21/2004
Count Of Town: 1
Facility Size (Acres): 11.6

C8
South
1/4-1/2
0.290 mi.
1530 ft.

HILL MART — **RI LUST** — **S112205540**
295 CONNELL HIGHWAY — **N/A**
NEWPORT, RI

Site 1 of 2 in cluster C

Relative:
Higher

Actual:
44 ft.

LUST:
Project Number: 2294-ST
Project Date: 10/09/2012
Facility Id: 50
Facility Status: Soil Removal Only; No Further Action Required

---

C9
South
1/4-1/2
0.311 mi.
1642 ft.

BELL ATLANTIC — **RI LUST** — **S103350070**
286 CONNELL HIGHWAY — **N/A**
NEWPORT, RI

Site 2 of 2 in cluster C

Relative:
Higher

Actual:
39 ft.

LUST:
Project Number: 2253-LS
Project Date: 11/14/1997
Facility Id: 1226
Facility Status: Inactive; Investigation/Remed. Complete,No Further Action Required

---

10
SSE
1/4-1/2
0.474 mi.
2501 ft.

FESTIVAL FIELD APARTMENTS — **RI LUST** — **U003114383**
90 GIRARD AVE — **RI UST** — **N/A**
NEWPORT, RI

Relative:
Higher

Actual:
99 ft.

LUST:
Project Number: 2245-ST
Project Date: 10/23/1995
Facility Id: 17339
Facility Status: Inactive; Investigation/Remed. Complete,No Further Action Required

UST:
Facility ID: UST-17339
Facility Class: Commercials

Tank ID: 1
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 2
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 3
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2

FESTIVAL FIELD APARTMENTS (Continued) **U003114383**

Date Installed: 04/25/2001

Tank ID: 4
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 5
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 6
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 7
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

Tank ID: 8
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Heating Oil No.2
Date Installed: 04/25/2001

11
SSW
1/4-1/2
0.485 mi.
2560 ft.

R.K. FESTIVAL SHOPPES **RI SHWS** **S104180211**
199 CONNELL HIGHWAY **N/A**
NEWPORT, RI

Relative:
Lower

Actual:
13 ft.

SHWS:
Project Code: RKF-HWM
Facility Status: Active
Project Code Desc: RKF-HWM
Project Date: 07/09/1999

12
East
1/2-1
0.510 mi.
2695 ft.

GETTY SERVICE STATION - #68002
10 CODDINGTON HWY
MIDDLETOWN, RI

RI SHWS **U003207682**
RI LUST **N/A**
RI UST

Relative:
Higher

Actual:
91 ft.

SHWS:
Project Code: GS68-HWM
Facility Status: **Active**
Project Code Desc: GS68-HWM
Project Date: 08/17/2012

LUST:
Project Number: 1917A-LS
Project Date: 12/08/2009
Facility Id: 1341
Facility Status: **Inactive; Investigation/Remed. Complete,No Further Action Required**

Project Number: 1917-LS
Project Date: 04/26/1994
Facility Id: 1341
Facility Status: **Inactive; Investigation/Remed. Complete,No Further Action Required**

UST:
Facility ID: UST-1341
Facility Class: Gasoline Station

Tank ID: 1
Tank Status: **Permanently Closed**
Tank Capacity: 1000
Tank Substance: Waste Oil
Date Installed: 07/01/1972

Tank ID: 2
Tank Status: **Permanently Closed**
Tank Capacity: 500
Tank Substance: Heating Oil No.2
Date Installed: 07/01/1972

Tank ID: 3
Tank Status: **Permanently Closed**
Tank Capacity: 8000
Tank Substance: Gasoline
Date Installed: 07/01/1972

Tank ID: 4
Tank Status: **Permanently Closed**
Tank Capacity: 8000
Tank Substance: Gasoline
Date Installed: 07/01/1972

Tank ID: 5
Tank Status: **Permanently Closed**
Tank Capacity: 8000

GETTY SERVICE STATION - #68002 (Continued) **U003207682**

Tank Substance: Gasoline
Date Installed: 07/01/1972

Tank ID: 6
Tank Status: Permanently Closed
Tank Capacity: 6000
Tank Substance: Gasoline
Date Installed: 06/01/1996

Tank ID: 7
Tank Status: Permanently Closed
Tank Capacity: 4000
Tank Substance: Gasoline
Date Installed: 06/01/1996

Tank ID: 8
Tank Status: Permanently Closed
Tank Capacity: 12000
Tank Substance: Gasoline
Date Installed: 06/01/1996

---

13 **MOBIL STATION** **RI SHWS** **S106250408**
SSW **163 J. T. CONNELL HIGHWAY** **RI LUST** **N/A**
1/2-1 **NEWPORT, RI**
0.541 mi.
2856 ft.

Relative:
Higher

Actual:
39 ft.

SHWS:
Project Code: MOBS-HWM
Facility Status: Inactive
Project Code Desc: MOBS-HWM
Project Date: 12/16/2002

LUST:
Project Number: 2208-LS
Project Date: 01/01/1989
Facility Id: 1511
Facility Status: Inactive; Investigation/Remed. Complete,No Further Action Required

---

14 **U - HAUL** **RI SHWS** **S105617934**
South **111 J.T. CONNELL HIGHWAY** **N/A**
1/2-1 **NEWPORT, RI**
0.610 mi.
3220 ft.

Relative:
Lower

Actual:
18 ft.

SHWS:
Project Code: UHAL-HWM
Facility Status: Inactive
Project Code Desc: UHAL-HWM
Project Date: 08/26/1996

15
SSE
1/2-1
0.737 mi.
3889 ft.

PARK HOLM - HOUSING AUTHORITY OF NEWPORT - PHASE I
120 HILLSIDE AVENUE
NEWPORT, RI

RI SHWS **S113740769**
N/A

Relative:
Higher

Actual:
104 ft.

SHWS:

Project Code:	PHOLM-HWM
Facility Status:	**Active**
Project Code Desc:	PHOLM-HWM
Project Date:	05/02/2013

16
ESE
1/2-1
0.750 mi.
3958 ft.

WEST MARINE INC
379 W MAIN RD
MIDDLETOWN, RI 02842

RCRA-SQG **1000281860**
RI SHWS **RID018507996**
RI MANIFEST
RI AUL

Relative:
Higher

Actual:
124 ft.

RCRA-SQG:

Date form received by agency:	02/22/2011
Facility name:	WEST MARINE INC
Facility address:	379 W MAIN RD MIDDLETOWN, RI 02842
EPA ID:	RID018507996
Mailing address:	W MAIN RD MIDDLETOWN, RI 02840
Contact:	MARK HADLEY
Contact address:	WESTRIDGE DR WATSONVILLE, CA 95076
Contact country:	US
Contact telephone:	(831) 761-6836
Contact email:	Not reported
EPA Region:	01
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	WEST MARINE INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/03/2011
Owner/Op end date:	Not reported
Owner/operator name:	WEST MARINE PRODUCTS INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	02/05/2010

WEST MARINE INC (Continued) **1000281860**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/28/2000
Facility name: WEST MARINE INC
Site name: BOULEVARD NURSERIES INC
Classification: Not a generator, verified

Date form received by agency: 10/04/1988
Facility name: WEST MARINE INC
Site name: BOULEVARD NURSERIES INC
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

WEST MARINE INC (Continued) **1000281860**

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D027
Waste name: 1,4-DICHLOROBENZENE

Waste code: D029
Waste name: 1,1-DICHLOROETHYLENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: U002
Waste name: ACETONE (I)

Waste code: U154
Waste name: METHANOL (I)

Waste code: U159
Waste name: 2-BUTANONE (I,T)

Waste code: R002
Waste name: REACTIVE WASTE

Violation Status: No violations found

SHWS:
Project Code: BOUN-HWM
Facility Status: **Inactive**
Project Code Desc: BOUN-HWM
Project Date: 02/17/1998

WEST MARINE INC (Continued) **1000281860**

RI MANIFEST:
GEN Cert Date: 5/3/1989
Transporter Receipt Date: Not reported
Number Of Containers: 0
Container Type: Not reported
Waste Code1: D001
Waste Code2: Not reported
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: SK
TSDF ID: MAD000846006
TSDF Date: Not reported
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: MAC754429
Waste Description: PET NAP
Quantity: 180
WT/Vol Units: P
Item Number: 1
Transporter Name: SK
Transporter EPA ID: ILD000805911
GEN Cert Date: 5/3/1989
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: RID018507996
Transporter 2 ID: Not reported

AUL:
ELUR Date: 02/27/2002
Count Of Town: 1
Facility Size (Acres): 2.200

D17 **MARRIOTT RESIDENCE INN** **RI SHWS S109823782**
ESE **325 WEST MAIN ROAD** **RI AUL N/A**
1/2-1 **MIDDLETOWN, RI**
0.762 mi.
4021 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
132 ft.

SHWS:
Project Code: RESI-HWM
Facility Status: **Inactive**
Project Code Desc: RESI-HWM
Project Date: 02/15/2006

Project Code: RES2-HWM
Facility Status: **Active**
Project Code Desc: RES2-HWM
Project Date: Not reported

AUL:
ELUR Date: 12/26/2007
Count Of Town: 1
Facility Size (Acres): 6.325

E18
South
1/2-1
0.767 mi.
4049 ft.

NEWPORT CITY DUMP
ADMIRAL KALBFUS ROAD
NEWPORT, RI

RI SHWS **S104180210**
N/A

Site 1 of 2 in cluster E

Relative:
Higher

Actual:
49 ft.

SHWS:
Project Code: NCDP-HWM
Facility Status: **Inactive**
Project Code Desc: NCDP-HWM
Project Date: 08/27/1970

D19
ESE
1/2-1
0.768 mi.
4054 ft.

FIRST BRISTOL CORP
317 WEST MAIN ROAD
MIDDLETOWN, RI

RI SHWS **S105200789**
RI AUL **N/A**

Site 2 of 2 in cluster D

Relative:
Higher

Actual:
140 ft.

SHWS:
Project Code: FBRC-HWM
Facility Status: **Inactive**
Project Code Desc: FBRC-HWM
Project Date: 12/20/2001

AUL:
ELUR Date: 03/11/2004
Count Of Town: 1
Facility Size (Acres): 1.399

E20
South
1/2-1
0.787 mi.
4154 ft.

JAI ALAI
150 ADMIRAL KALBFUS ROAD
NEWPORT, RI

RI SHWS **S103247144**
RI AUL **N/A**

Site 2 of 2 in cluster E

Relative:
Higher

Actual:
39 ft.

SHWS:
Project Code: JAI-HWM
Facility Status: **Active**
Project Code Desc: JAI-HWM
Project Date: 02/13/1998

AUL:
ELUR Date: 04/05/2006
Count Of Town: 1
Facility Size (Acres): 17.69

21
SSE
1/2-1
0.803 mi.
4242 ft.

ROLLING GREEN VILLAGE APARTMENTS
105 ADMIRAL KAUFBUS ROAD
NEWPORT, RI

RI SHWS **S108852250**
N/A

Relative:
Higher

Actual:
95 ft.

SHWS:
Project Code: RGVA-HWM
Facility Status: **Active**
Project Code Desc: RGVA-HWM
Project Date: 07/12/2007

F22
ENE
1/2-1
0.866 mi.
4573 ft.

FREITAS PROPERTY
741 WEST MAIN ROAD
MIDDLETOWN, RI

Site 1 of 2 in cluster F

RI SHWS **1006703485**
RI AUL **N/A**

Relative:
Higher

Actual:
106 ft.

SHWS:
Project Code: FRTS-SFA
Facility Status: **Active**
Project Code Desc: FRTS-SFA
Project Date: 02/16/2001

Project Code: FRTS-HWM
Facility Status: **Active**
Project Code Desc: FRTS-HWM
Project Date: 12/17/1999

AUL:
ELUR Date: 04/11/2007
Count Of Town: 1
Facility Size (Acres): 0.770

23
SE
1/2-1
0.878 mi.
4637 ft.

SULLIVAN SCHOOL
35 DEXTER AVENUE
NEWPORT, RI

RI SHWS **S104180083**
RI LUST **N/A**

Relative:
Higher

Actual:
108 ft.

SHWS:
Project Code: SPES-HWM
Facility Status: **Active**
Project Code Desc: SPES-HWM
Project Date: 02/10/2011

LUST:
Project Number: 2267-ST
Project Date: 07/12/1999
Facility Id: 712
Facility Status: **Soil Removal Only; No Further Action Required**

F24
ENE
1/2-1
0.885 mi.
4672 ft.

TONI MARINE SALES AND SERVICE
759 WEST MAIN ROAD
MIDDLETOWN, RI

Site 2 of 2 in cluster F

RI SHWS **S106664166**
N/A

Relative:
Higher

Actual:
79 ft.

SHWS:
Project Code: TONI-HWM
Facility Status: **Active**
Project Code Desc: TONI-HWM
Project Date: 09/02/2004

25
East
1/2-1
0.941 mi.
4966 ft.

AQUIDNECK GROUP
99 EAST MAIN ROAD
MIDDLETOWN, RI

RI SHWS **U003208648**
RI LUST **N/A**

Relative:
Higher

Actual:
65 ft.

SHWS:
Project Code: AQUI-HWM
Facility Status: **Active**
Project Code Desc: AQUI-HWM
Project Date: 10/22/2003

LUST:
Project Number: 1908-LS
Project Date: 12/20/1990
Facility Id: 2653
Facility Status: **Soil Removal Only; No Further Action Required**

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEWPORT	1000112199	NEW ENGLAND TELEPHONE CO	CONNELL HWY	02840	RCRA-SQG,MANIFEST
MIDDLETOWN	1000200923		CODDINGTON COVE	02840	FINDS,MANIFEST,MANIFEST,RCRA-
NEWPORT	1000280283	BOWLER REALTY	CONNELL HGY	02840	FINDS,RCRA-NLR,MANIFEST
NEWPORT	1000288128	Colbea Enterprises, LLC	CONNELL & KALBFUS	02840	FINDS,RCRA-NLR,MANIFEST
NEWPORT	1000328071	SUNOCO SERVICE STATION	UNKNOWN	02840	FINDS,RCRA-NLR
MIDDLETOWN	1000445238	US NAVY SUPERVISOR OF SHIPBUILDING	CODDINGTON COVE	02842	FINDS,RCRA-NLR
NEWPORT	1000574147	ExxonMobil Oil Corp 01-235	RTE 138	02840	FINDS,MANIFEST,MANIFEST,RCRA-
NEWPORT	1000695671	NYNEX	CONNELL HWY	02840	FINDS,RCRA-NLR
NORTH KINGSTOWN	1000801385	NAS FIREFIGHTING AREA	EAST OF RUNWAY #1634		HWS
NEWPORT	1000882687	NAVAL STATION NEWPORT PUBLIC WORKS	ONE SIMON PIETRI DRIVE	02841	CORRACTS,RCRA-TSDF,MANIFEST,
NEWPORT	1003862597	ROSE ISLAND	NEWPORT HARBOR		CERCLIS-NFRAP,HWS
NEWPORT	1003862738	HARRISON AVENUE DUMP	HARRISON AVENUE		CERCLIS-NFRAP,HWS
PORTSMOUTH	1007209095	US NAVAL STATION-NEWPORT	195 BURMA RD	02871	MANIFEST
NEWPORT	1009246891	SIPCO SERVICES	CONNELL HIGHWAY	02840	MANIFEST
NEWPORT	1009246892	R I BACKPANEL	299 JOHN CLARK ROAD	02840	MANIFEST
NEWPORT	A100282986	DEPT. OF THE NAVY-BUILDING #68	NAVAL STATION NEWPORT-PIER 2 D		AST
NEWPORT	A100380212	NEWPORT BIODEISEL	312 CONNEL HWY		AST
NEWPORT	S103247150	NEWPORT VOCATIONAL SCHOOL	OLD FORTE RD		HWS
NEWPORT	S104943030	AARDVARK ANTIQUES	9 JT CONNELL HIGHWAY		AUL,HWS
NEWPORT	S112205238	NATIONAL GRID PROPERTY - NEWPORT	286 J.T. CONNELL HIGHWAY		HWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
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Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/08/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/29/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 72

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/15/2013
Next Scheduled EDR Contact: 09/02/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: List of CERCLIS and State Sites in RI

This list includes sites that have been investigated under the Federal CERCLIS program (?SFA? sites) as well as sites that have notified under the state program or have been investigated for hazardous substances (?HWM? sites).

Date of Government Version: 08/02/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-3872
Last EDR Contact: 07/15/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/31/2013
Date Data Arrived at EDR: 05/31/2013
Date Made Active in Reports: 07/29/2013
Number of Days to Update: 59

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 07/15/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

LCP: Landfill Closure Program Sites in RI

This inventory contains both formerly permitted landfills that are closed as well as dumps that were never licensed by the Department. This list does not include Superfund Sites and current or former Federal Facilities. This list includes lat/long data that has not been field verified.

Date of Government Version: 08/13/2013
Date Data Arrived at EDR: 08/14/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 5

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: LUST Case List

The LUST Case List is a summary of UST Facilities in RI with leaking USTs, which includes information on the date of release discovery and the status of the LUST Case (active, soil removal only, or inactive).

Date of Government Version: 05/01/2013
Date Data Arrived at EDR: 05/08/2013
Date Made Active in Reports: 07/29/2013
Number of Days to Update: 82

Source: Department of Environmental Management
Telephone: 401-222-3872
Last EDR Contact: 07/15/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/01/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 162
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: UST Master List
The UST Master List is a summary of registered UST Facilities in RI, which includes information on abandoned, in use, permanently closed and temporarily closed USTs.

Date of Government Version: 05/01/2013
Date Data Arrived at EDR: 05/08/2013
Date Made Active in Reports: 07/29/2013
Number of Days to Update: 82
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 07/15/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 01/01/2013
Date Data Arrived at EDR: 06/26/2013
Date Made Active in Reports: 08/06/2013
Number of Days to Update: 41
Source: Department of Environmental Management
Telephone: 401-222-3872
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Waste Management Sites with Environmental Land Use Restrictions

This list was developed by RIDEM for use as a general reference and are not meant to be legally authoritative source for the location of hazardous materials, nor for the status, condition or permissible use of a site.

Date of Government Version: 08/09/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/09/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/02/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are real properties where the expansion, redevelopment or reuse may be complicated by the actual or potential presence of a hazardous substance, pollutant, or contaminat.

Date of Government Version: 10/02/2003
Date Data Arrived at EDR: 10/07/2003
Date Made Active in Reports: 10/21/2003
Number of Days to Update: 14

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/26/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/31/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/12/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 59

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Information Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 10/03/2006
Date Data Arrived at EDR: 12/04/2006
Date Made Active in Reports: 12/18/2006
Number of Days to Update: 14

Source: Dept of Environmental Management
Telephone: 401-274-4400
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

SPILLS: Oil & Hazardous Material Response Log/Spill Report
Spills reported to the Office of Emergency Response.

Date of Government Version: 11/15/2004
Date Data Arrived at EDR: 02/04/2005
Date Made Active in Reports: 03/24/2005
Number of Days to Update: 48
Source: Dept. of Environmental Management
Telephone: 401-222-3872
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 09/30/2013
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 01/04/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/18/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 08/08/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 03/13/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/11/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 04/18/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 114

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/17/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/14/2013
Date Data Arrived at EDR: 03/20/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 112

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/09/2013
Date Data Arrived at EDR: 04/11/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 29

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 09/11/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Biennially

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner locations.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/02/2013
Number of Days to Update: 32

Source: Department of Environmental Management
Telephone: 401-222-2808
Last EDR Contact: 08/09/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

NPDES: Permit and Facility Data

A listing of permitted wastewater facilities

Date of Government Version: 03/28/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 42

Source: Department of Environmental Management
Telephone: 401-222-4700
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Air Emissions Listing
A listing of facilities with air emissions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/02/2013
Number of Days to Update: 32

Source: Department of Environmental Management
Telephone: 401-222-2808
Last EDR Contact: 08/09/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

LEAD: Lead Inspections Database
The listing includes Highest Risk Premises which are properties declared unsafe for habitation by children under age six (6), and Properties with Multiple Poisonings, which are properties that have been the source of multiple lead poisonings and are not currently lead safe.

Date of Government Version: 06/24/2013
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 07/29/2013
Number of Days to Update: 34

Source: Department of Health, Environmental Lead Program
Telephone: 401-222-5960
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Quarterly

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/02/2013
Next Scheduled EDR Contact: 11/11/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information
Financial assurance information for hazardous waste facilities.

Date of Government Version: 05/14/2010
Date Data Arrived at EDR: 05/14/2010
Date Made Active in Reports: 06/21/2010
Number of Days to Update: 38
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/21/2013
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36
Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: N/A

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 81
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100
Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100
Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 04/04/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 97
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/03/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/20/2013
Date Data Arrived at EDR: 05/21/2013
Date Made Active in Reports: 06/27/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/19/2013
Next Scheduled EDR Contact: 10/28/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/26/2013
Date Data Arrived at EDR: 05/24/2013
Date Made Active in Reports: 07/22/2013
Number of Days to Update: 59

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/18/2013
Next Scheduled EDR Contact: 11/04/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/17/2013
Next Scheduled EDR Contact: 09/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Provider Listing
Source: Department of Children, Youth & Families
Telephone: 401-528-3624

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Classification Data
Source: Dept. of Administration/Statewide Planning
Telephone: 401-222-6483

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

NEX SERVICE STATION
85-2 WHIPPLE ST
NEWPORT, RI 02841

TARGET PROPERTY COORDINATES

Latitude (North):	41.5192 - 41° 31' 9.12''
Longitude (West):	71.3156 - 71° 18' 56.16''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	306779.0
UTM Y (Meters):	4598772.0
Elevation:	30 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41071-E3 PRUDENCE ISLAND, RI
Most Recent Revision:	2000

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

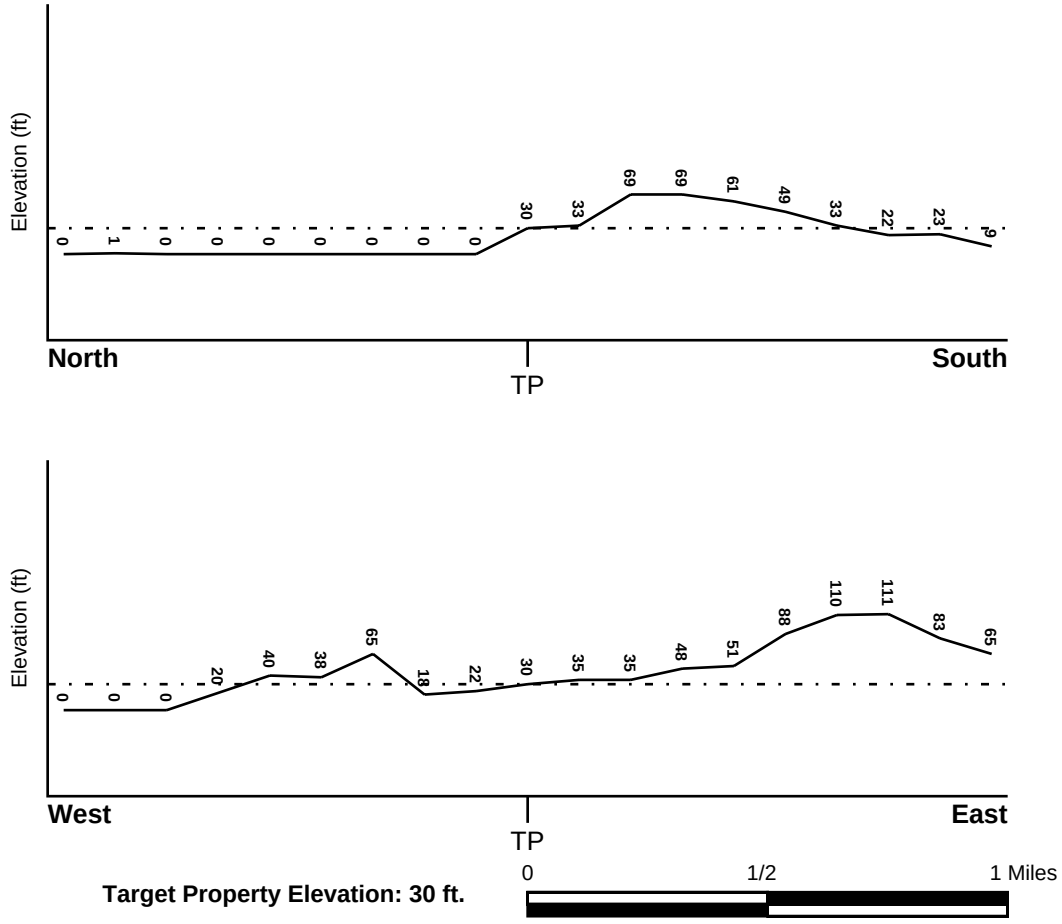
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 30 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
NEWPORT, RI	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 44005C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PRUDENCE ISLAND	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Pennsylvanian
Series:	Pennsylvanian
Code:	PP *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3723834.2s

Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	NEX Service Station	CLIENT:	AECOM
ADDRESS:	85-2 WHIPPLE ST Newport RI 02841	CONTACT:	Naomi Ouellette
LAT/LONG:	41.5192 / -71.3156	INQUIRY #:	3723834.2s
		DATE:	September 11, 2013 1:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Udorthents

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	11 inches	25 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	25 inches	59 inches		Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

Soil Map ID: 2

Soil Component Name: Newport

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	24 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	24 inches	64 inches		Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Pittstown

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5
2	7 inches	27 inches		Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5
3	27 inches	59 inches		Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Stissing

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 3.6
2	7 inches	14 inches		Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 3.6
3	14 inches	59 inches		Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

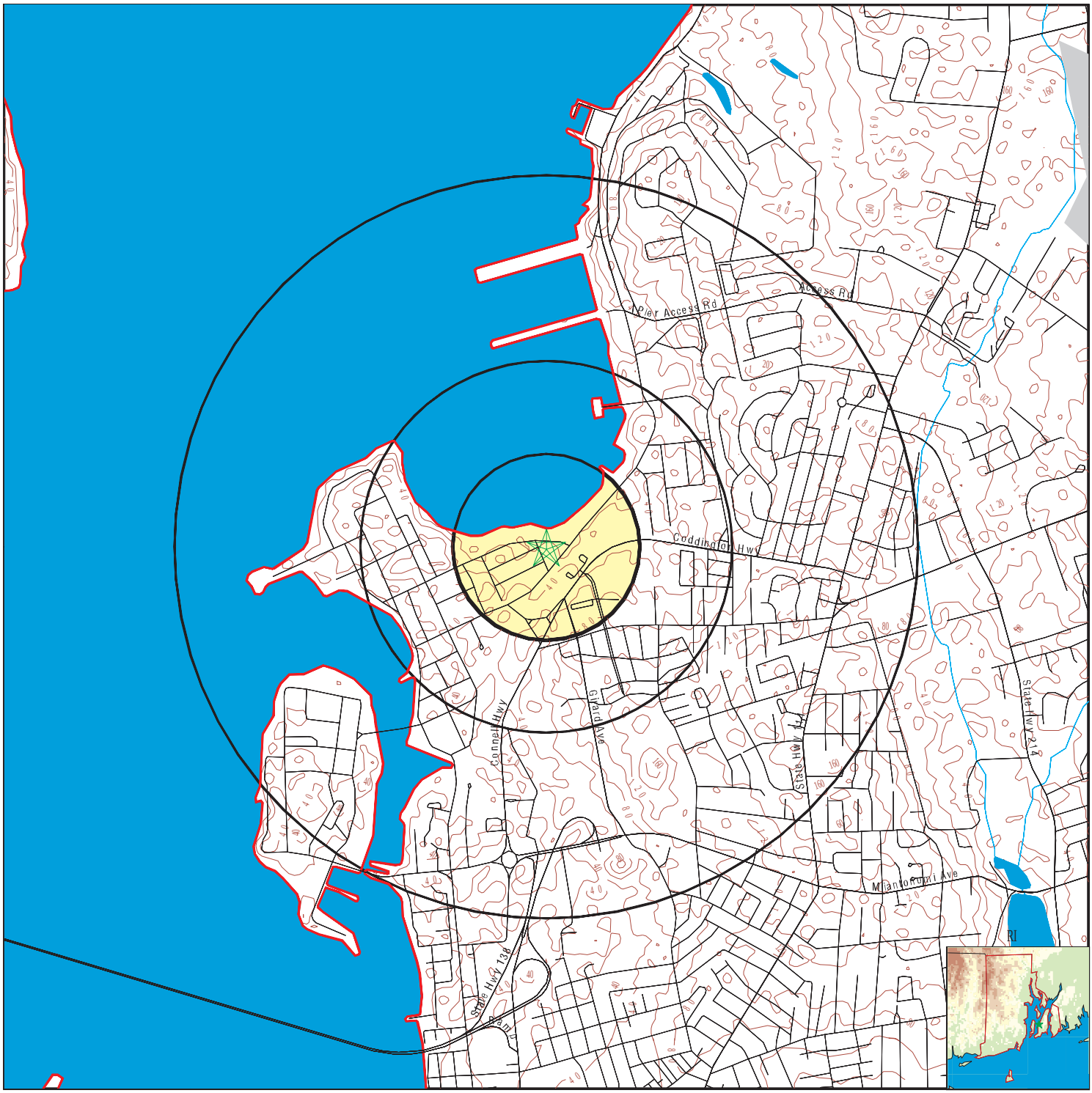
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3723834.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- EPA Designated Sole Src. Aq.

N

SITE NAME:	NEX Service Station	CLIENT:	AECOM
ADDRESS:	85-2 WHIPPLE ST Newport RI 02841	CONTACT:	Naomi Ouellette
LAT/LONG:	41.5192 / -71.3156	INQUIRY #:	3723834.2s
		DATE:	September 11, 2013 1:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: RI Radon

Radon Test Results

Zipcode	Num Tests	# < 4 pCi/L	4 to 20	# > 20 pCi/L	Maximum
02841	3	1	2	0	11.7

Federal EPA Radon Zone for NEWPORT County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for NEWPORT COUNTY, RI

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.817 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.355 pCi/L	81%	16%	3%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Classification Data
Source: Dept. of Administration/Statewide Planning
Telephone: 401-222-6483

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Community and Non-Community Wells
Source: Department of Environmental Management
Telephone: 401-277-2234
Includes Community, Non-Transient Non-Community and Transient Non-Community.

EPA-Approved Sole Source Aquifers in Rhode Island
Source: EPA
Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

OTHER STATE DATABASE INFORMATION

RADON

State Database: RI Radon
Source: Department of Health
Telephone: 401-222-2438
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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NEX Service Station
85-2 WHIPPLE ST
Newport, RI 02841

Inquiry Number: 3723834.4
September 11, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Historical Topographic Map

N	TARGET QUAD NAME: NARRAGANSETT BAY MAP YEAR: 1892 SERIES: 15 SCALE: 1:62500	SITE NAME: NEX Service Station ADDRESS: 85-2 WHIPPLE ST Newport, RI 02841 LAT/LONG: 41.5192 / -71.3156	CLIENT: AECOM CONTACT: Naomi Ouellette INQUIRY#: 3723834.4 RESEARCH DATE: 09/11/2013

Historical Topographic Map

N

TARGET QUAD
NAME: NARRAGANSETT BAY
MAP YEAR: 1919

SERIES: 15
SCALE: 1:62500

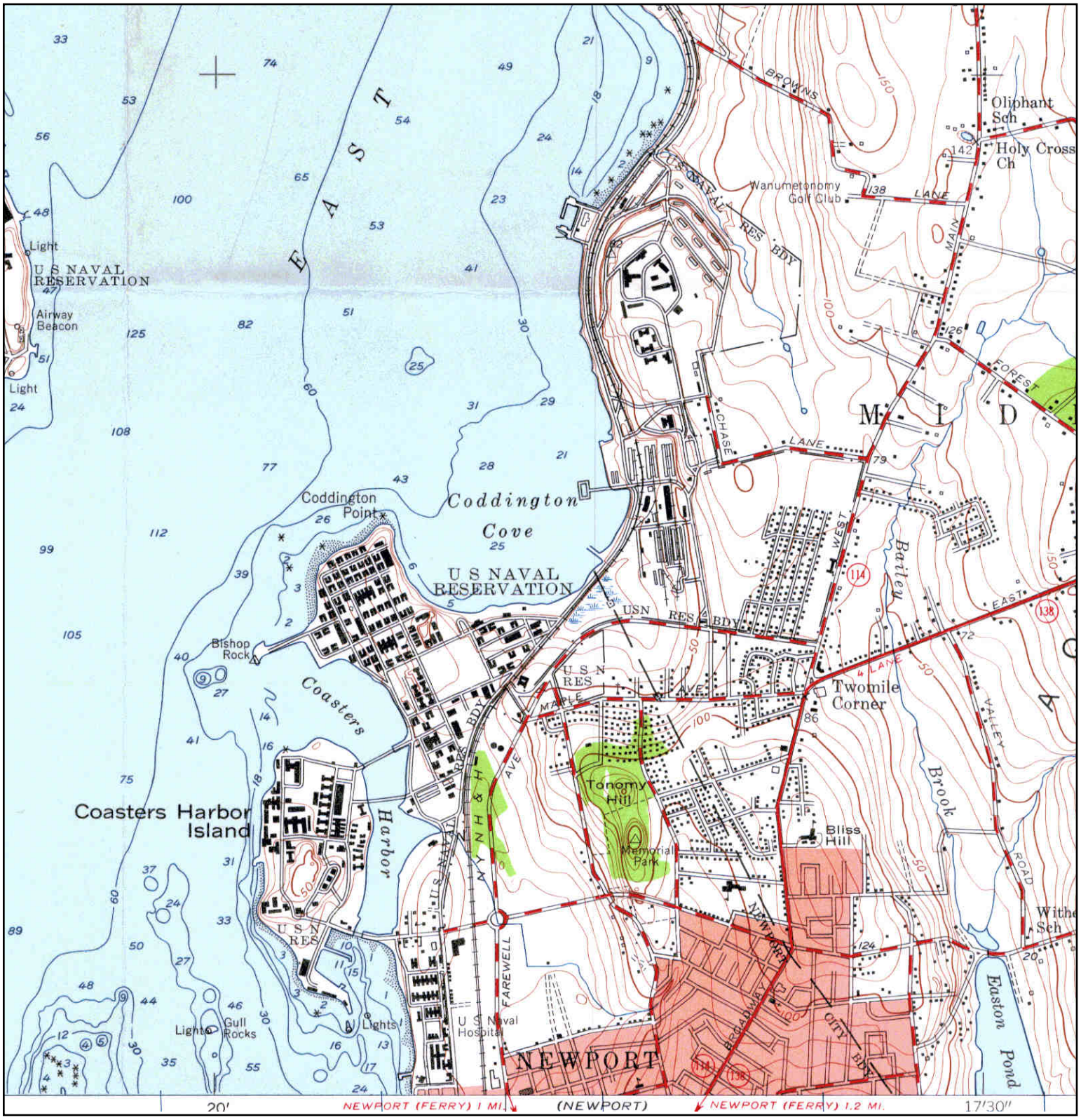
SITE NAME: NEX Service Station
ADDRESS: 85-2 WHIPPLE ST
Newport, RI 02841
LAT/LONG: 41.5192 / -71.3156

CLIENT: AECOM
CONTACT: Naomi Ouellette
INQUIRY#: 3723834.4
RESEARCH DATE: 09/11/2013

Historical Topographic Map

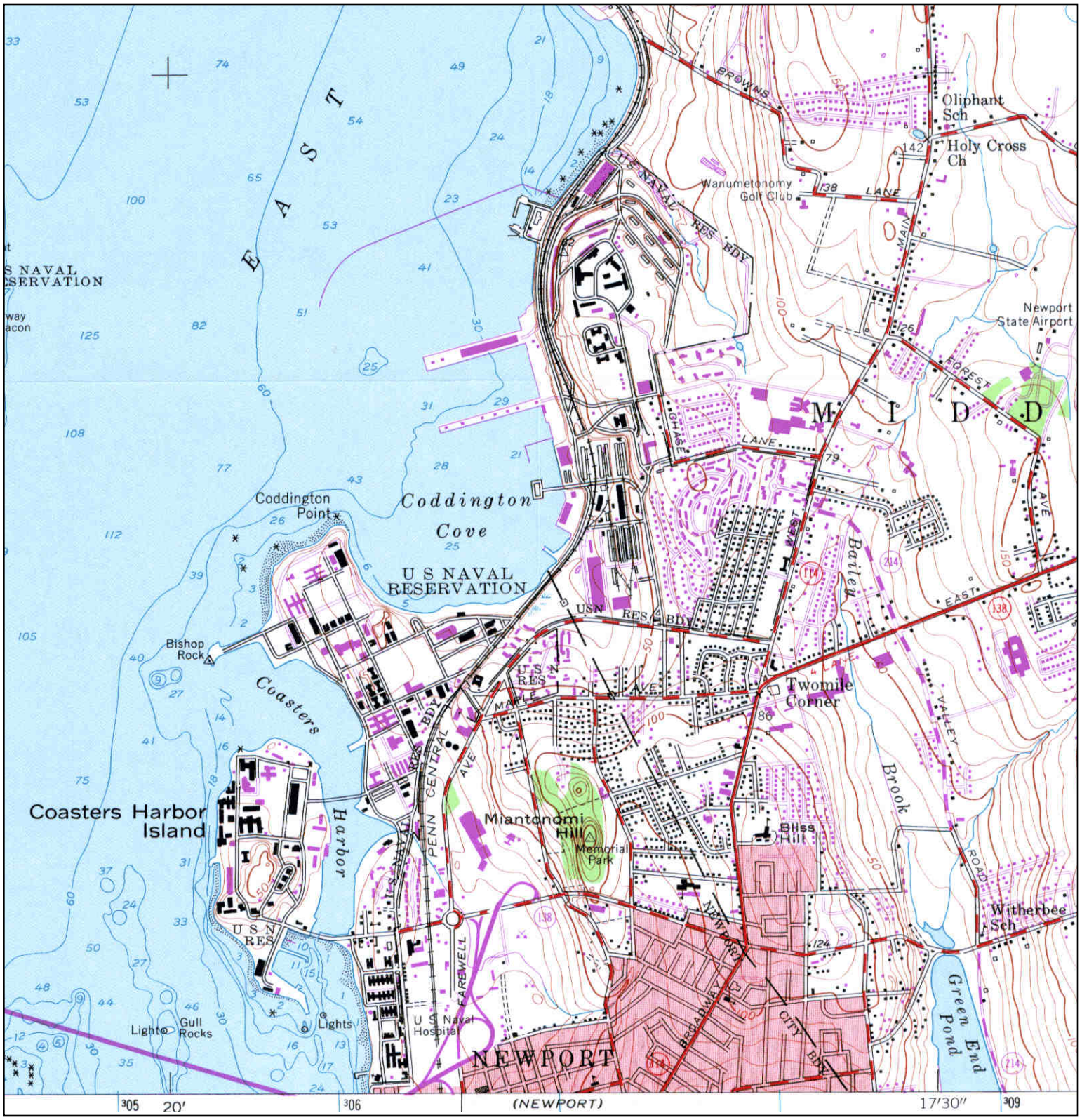
N	TARGET QUAD NAME: PRUDENCE ISLAND MAP YEAR: 1942 SERIES: 7.5 SCALE: 1:25000	SITE NAME: NEX Service Station ADDRESS: 85-2 WHIPPLE ST Newport, RI 02841 LAT/LONG: 41.5192 / -71.3156	CLIENT: AECOM CONTACT: Naomi Ouellette INQUIRY#: 3723834.4 RESEARCH DATE: 09/11/2013

Historical Topographic Map



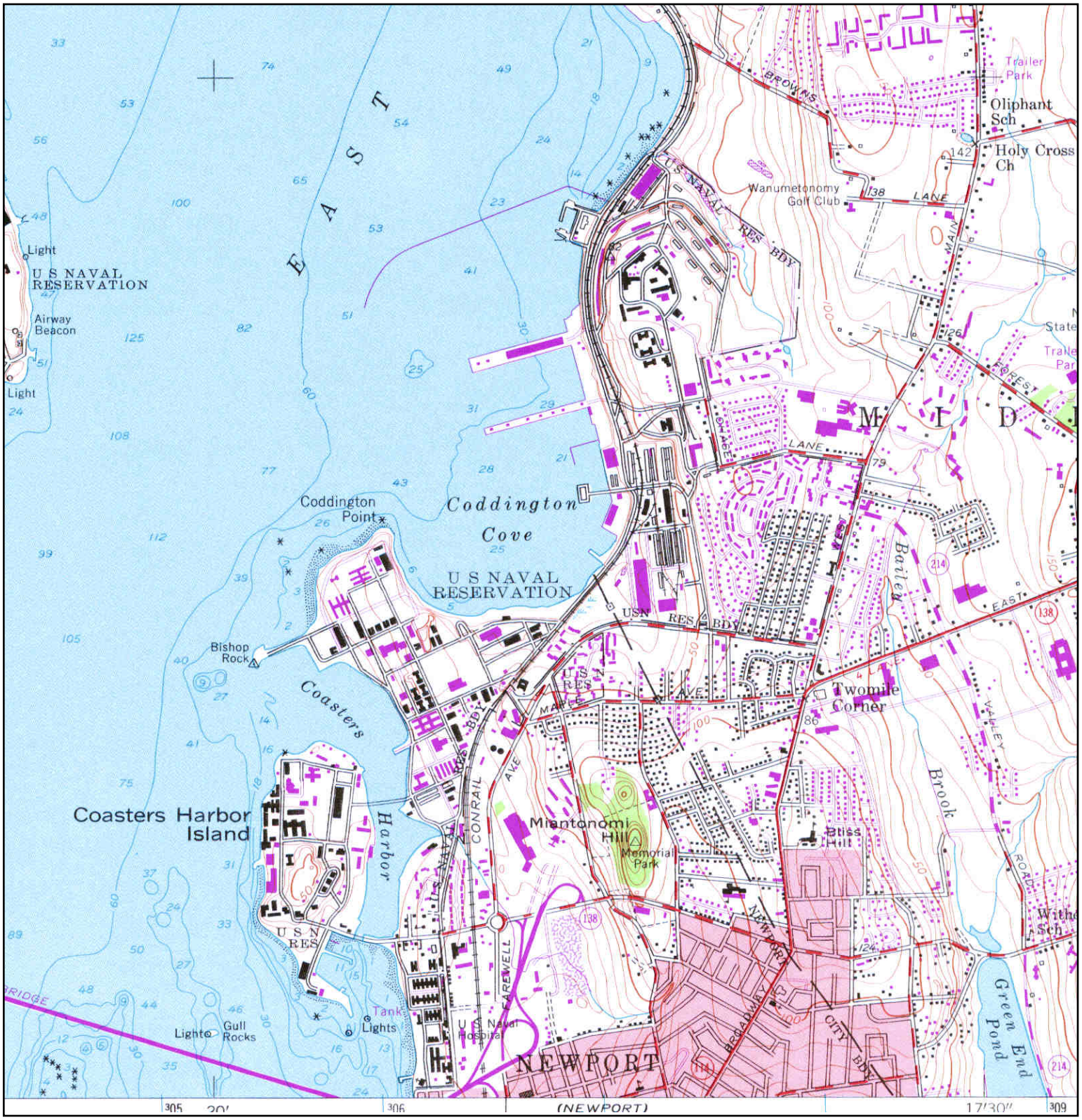
N	TARGET QUAD NAME: PRUDENCE ISLAND MAP YEAR: 1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: NEX Service Station ADDRESS: 85-2 WHIPPLE ST Newport, RI 02841 LAT/LONG: 41.5192 / -71.3156	CLIENT: AECOM CONTACT: Naomi Ouellette INQUIRY#: 3723834.4 RESEARCH DATE: 09/11/2013

Historical Topographic Map



N	TARGET QUAD				
	NAME:	PRUDENCE ISLAND	SITE NAME:	NEX Service Station	CLIENT: AECOM
	MAP YEAR:	1970	ADDRESS:	85-2 WHIPPLE ST	CONTACT: Naomi Ouellette
	PHOTOREVISED FROM :	1955		Newport, RI 02841	INQUIRY#: 3723834.4
	SERIES:	7.5	LAT/LONG:	41.5192 / -71.3156	RESEARCH DATE: 09/11/2013
	SCALE:	1:24000			

Historical Topographic Map



N	TARGET QUAD NAME: PRUDENCE ISLAND MAP YEAR: 1975 PHOTOREVISED FROM :1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: NEX Service Station ADDRESS: 85-2 WHIPPLE ST Newport, RI 02841 LAT/LONG: 41.5192 / -71.3156	CLIENT: AECOM CONTACT: Naomi Ouellette INQUIRY#: 3723834.4 RESEARCH DATE: 09/11/2013

Historical Topographic Map

N	TARGET QUAD NAME: PRUDENCE ISLAND MAP YEAR: 1996 SERIES: 7.5 SCALE: 1:24000	SITE NAME: NEX Service Station ADDRESS: 85-2 WHIPPLE ST Newport, RI 02841 LAT/LONG: 41.5192 / -71.3156	CLIENT: AECOM CONTACT: Naomi Ouellette INQUIRY#: 3723834.4 RESEARCH DATE: 09/11/2013

Appendix C

Geologic and Well Completion Logs

RESOLUTION CONSULTANTS

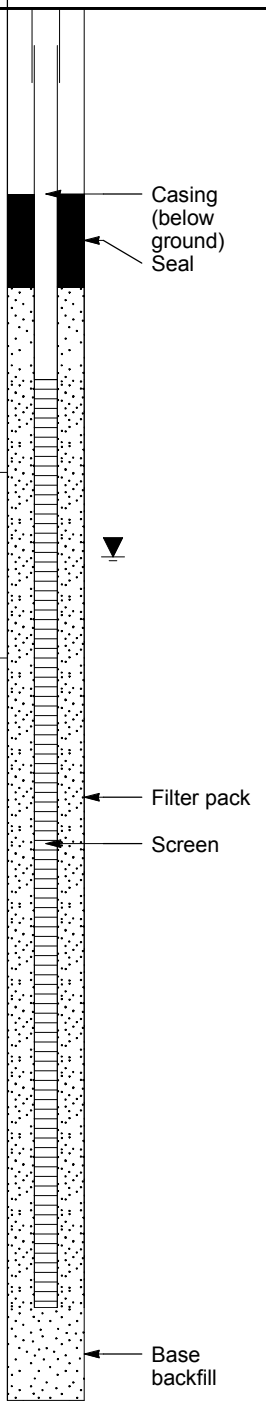
Boring and Well Construction Log

RS-MW1

Client: Navy CLEAN	**Location:** In front of bay 5/6	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158887.9 **Easting:** 378654.7	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 10.79 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 10:32:00 AM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/14/2013 10:26:00 AM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 5.9

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample
			1.9	SM		fine to medium SAND, little silt 20% fine to coarse gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, dry, no odor, no staining, poorly graded	
2							
						4.0	
4			0.7	SM		fine SAND, 30% silt trace medium sand, (5YR 8/3) pink (7.5YR 6/3) light brown, non plastic, soft to very soft, moist to wet, no odor, no staining	
						5.0	
	14	6 6 10 14	1.9	SM		fine to coarse silty SAND, 10% fine gravel 30% silt, (7.5YR 6/3) light brown, non plastic, medium soft, moist to wet, no odor, no staining, well graded	RS-SB1-111413
6							
						7.0	
	16	22 15 17 10	1.7	SM		fine to coarse silty SAND, (10YR 5/2) grayish brown, non plastic, stiff, moist, no odor, no staining	
8							
						9.0	
	13	12 20 36 77	NR	SM		fine to coarse silty SAND, 30% silt 30% coarse gravel, (2.5YR 5/1) reddish gray (10YR 5/2) grayish brown, non plastic very dense to hard, wet, no odor, no staining, angular, well graded	
10							
						11.0	
	4	100/4"	NR	SM		Same as above	
12							
						13.0	
	5	100/5"	NR	BEDROCK		COBBLES, (10B 5/1) bluish gray, wet, no odor, no staining, crushed stone/shale	
14							
						15.0	

End of boring at 15.0 ft. bgs.



RESOLUTION CONSULTANTS

Boring and Well Construction Log

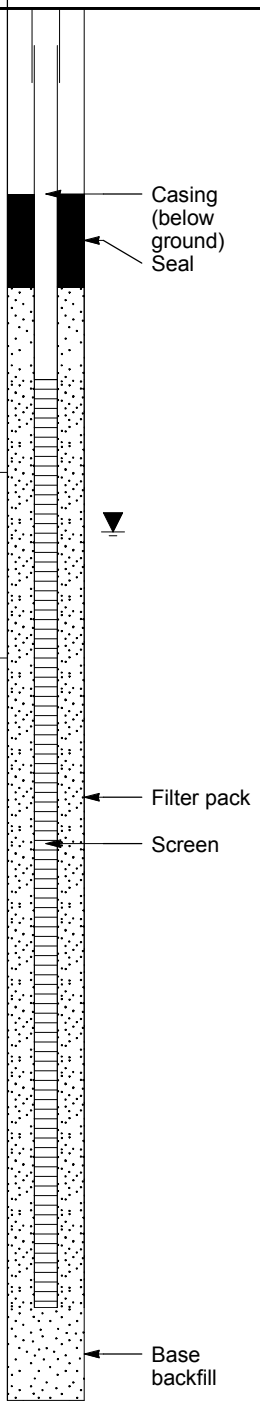
RS-MW2

Client: Navy CLEAN	**Location:** West of UST pad	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158904.9 **Easting:** 378615.6	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 10.5 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 12:14:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/15/2013 1:00:00 PM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 5.6

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample
			0.8	SW		fine to coarse SAND, 10% silt 25% fine to coarse gravel, (10YR 5/2) grayish brown, non plastic, loose to soft, dry, no odor, no staining, subrounded, well graded	
2							
						4.0	
4			0.5	SP		fine SAND, 20% silt trace medium sand, (10YR 5/2) grayish brown, non plastic, loose to soft, moist to wet, no odor, no staining	
						5.0	
	13	2 2 4 6	1.2	SP		fine to medium SAND, 10% silt, (2.5YR 4/4) reddish brown, non plastic, loose to medium dense, wet, no odor, no staining, well graded	RS-SB2-111513
6							
						7.0	
	19	6 10 12 12	1.4	SP		fine to medium SAND, 15% silt trace fine to coarse gravel, (7.5YR 6/3) light brown, non plastic, soft to medium dense, wet, no odor, no staining	
8							
						9.0	
	16	4 6 6 5	1.2	SM		fine to coarse SAND, 25% silt 30% fine to coarse gravel, (7.5YR 4/3) brown, non plastic, medium dense, moist, no odor, no staining, subangular, well graded	
10							
						11.0	
	11	6 7 12 12	2.9	SM		fine to coarse SAND, 20% silt 30% fine to coarse gravel, (7.5R 2.5/3) very dusky red, (2.5YR 6/3) light reddish brown, non plastic, medium soft to medium dense, wet, no odor, no staining, subangular, well graded	
12							
						13.0	
	7	34 100/1"	1.1	SM		Same as above	
14							
						15.0	

End of boring at 15.0 ft. bgs.

Well Diagram



RESOLUTION CONSULTANTS

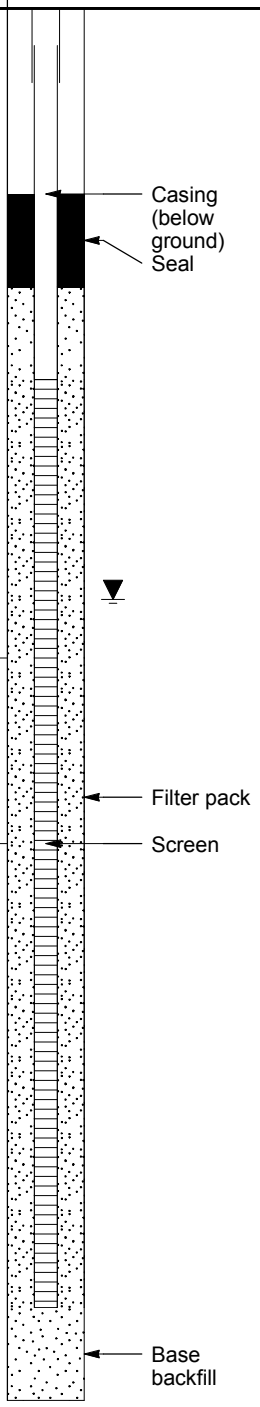
Boring and Well Construction Log

RS-MW3

Client: Navy CLEAN	**Location:** NW of dispenser pad, by parallel parking	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158915.7 **Easting:** 378557.6	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 11.18 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 12:14:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/15/2013 2:30:00 PM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 6.4

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample
			3.3	SW		fine to coarse gravelly SAND, 40% fine to coarse gravel trace construction debris, (10YR 5/2) grayish brown, non plastic, dry, no odor, no staining	
2							
4			3.6	ML		4.0 fine to coarse SAND, 30% fine to coarse gravel 10% silt, (10YR 5/2) grayish brown, non plastic, dry to slightly moist, no odor, no staining, subangular, well graded, crossbedded	
	6	1 2 2 2	3.8	SWG		5.0 fine to coarse SAND, 35% fine to coarse gravel, (7.5YR 3/4) dark brown, non plastic, loose, slightly moist to moist, no odor, no staining, subrounded, well graded	
6						7.0	
	10	1 2 1 1	7.8	SM		fine to coarse SAND, 25% fine to coarse gravel 20% silt, (7.5YR 3/4) dark brown, non plastic, loose, moist to wet, no odor, no staining, angular, well graded	RS-SB3-111513
8						9.0	
	11	3 9 9 8	0.7	SP		9.4 SAND, trace silt trace coarse sand, (7.5YR 4/3) brown, non plastic, soft, wet, no odor, no staining, poorly graded	
			0.6	MLS		fine to medium sandy SILT, 25% fine to medium sand trace fine gravel, (7.5YR 5/1) gray, wet, no odor, no staining, poorly graded	
10						11.0	
	288	7 16 16 10	0.3	SP		fine to medium SAND, 15% fine gravel trace silt, (7.5YR 4/3) brown, non plastic, soft, wet, no odor, no staining, subrounded, poorly graded	
12						12.4	
			0.2	MLS		13.0 fine to medium sandy SILT, 25% fine to medium sand, (7.5YR 5/1) gray, non plastic, medium soft, wet, no odor, no staining, poorly graded	
	16	12 21 24 22	NR	BEDROCK		(5YR 5/2) reddish gray, SEVERELY WEATHERED BEDROCK/SHALE	
14						15.0	

End of boring at 15.0 ft. bgs.



RESOLUTION CONSULTANTS

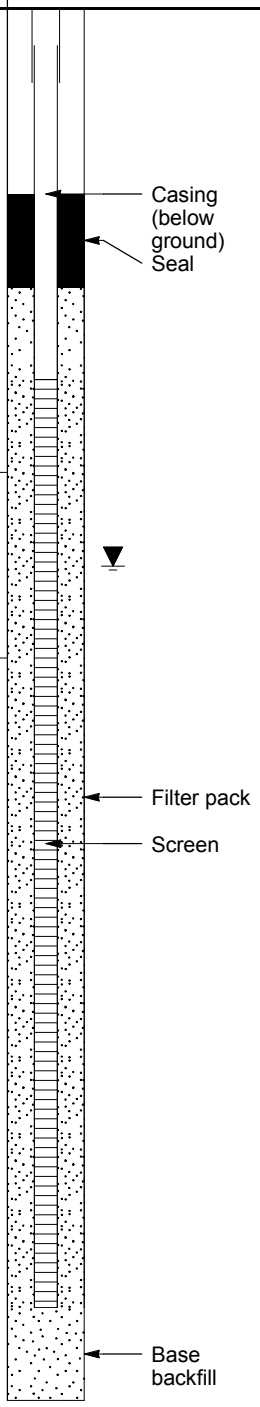
Boring and Well Construction Log

RS-MW4

Client: Navy CLEAN	**Location:** West corner of lot	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158916.7 **Easting:** 378507.8	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 10.75 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 12:52:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/18/2013 12:15:00 PM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 6.0

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample
			3.0	SW		fine SAND, 15% silt 30% fine to coarse gravel, (10YR 4/3) brown, non plastic, dry, no odor, no staining	
						3.0	
			3.0	ML		fine silty SAND, 20% silt trace medium gravel, (10YR 4/3) brown, non plastic, soft, dry to slightly moist, no odor, no staining, well graded	
						5.0	
6	6	1 1 1 4	1.1	MLS		fine to medium sandy SILT, 40% fine to medium sand trace coarse gravel, (7.5YR 5/4) brown, non plastic, medium soft, moist to wet, no odor, no staining	RS-SB4-111813
						7.0	
8	18	6 9 10 20	1.7	SM		fine to coarse SAND, 30% silt 10% fine gravel, (2.5YR 4/4) reddish brown (7.5YR 5/4) brown, non plastic, very dense, dry to slightly moist, no odor no staining	
						9.0	
10	13	4 11 11 20	2.1	ML		fine to coarse SAND, 25% silt 30% fine to coarse gravel, (7.5YR 4/3) brown, non plastic, firm, wet, no odor, no staining, angular, well graded	
						11.0	
12	13	8 9 12 8	2.3	ML		Same as above	
						13.0	
14	11	11 14 13 14	2.1	SM		fine to medium silty SAND, (5Y 4/2) olive gray, very hard, moist to wet, weathered shale	
						15.0	

End of boring at 15.0 ft. bgs.



Boring and Well Construction Log

RS-MW5

Sheet 1 of 1

RESOLUTION CONSULTANTS

Client: Navy CLEAN	**Location:** Southwest of dispensers	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158851.2 **Easting:** 378523.3	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 11.62 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 1:59:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/18/2013 9:45:00 AM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 6.7

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample	Well Diagram
			0.2	SWG		fine to coarse SAND, 10% fine to coarse gravel trace silt, (10YR 4/3) brown, non plastic, dry, no odor, no staining, subangular, well graded		
2						3.0		Casing (below ground)
			0.0	SWG		fine to coarse SAND, 10% fine to coarse gravel gravel, (10YR 4/3) brown, non plastic, dry, no odor, no staining, subrounded, well graded		Seal
4						5.0		
	12	4 1 2 7	116	SM		fine to medium silty SAND, trace fine gravel 30% silt, (10YR 5/2) grayish brown, non plastic, moist to wet, moderate petroleum odor, no staining		
						5.7		
6				SM		fine to coarse SAND, 20% silt 10% fine gravel, (7.5YR 6/4) light brown, non plastic, very stiff to medium dense, dry to slightly moist, slight petroleum odor, no staining	RS-SB5-111813	
						7.0		
	16	6 6 6 9	51.2	SM		fine to coarse SAND, 20% silt 10% fine gravel, (5YR 6/3) light reddish brown, non plastic dense, dry to slightly moist, slight petroleum odor, iron oxide staining		
8						9.0		Filter pack
	16	7 12 19 20	2.2	SM		fine silty SAND, (5YR 6/4) light reddish brown, non plastic, very stiff, slightly moist, no odor, iron oxide staining, SEVERELY WEATHERED SHALE		Screen
10						11.0		
	6	100/5"	1.3	SM		fine silty SAND, some rock fragments, (5YR 6/4) light reddish brown, non plastic, very stiff to hard, slightly moist, no odor, iron oxide staining, angular, poorly graded		
12						13.0		
	7	100/4"	2.4	SM		Same as above, bottom 0.3' light gray posible bedrock		
14						15.0		Base backfill

End of boring at 15.0 ft. bgs.

RESOLUTION CONSULTANTS

Boring and Well Construction Log

RS-MW6

Sheet 1 of 1

Client: Navy CLEAN	**Location:** Behind building	**Logged By:** Tom Croft
CTO: WE40	**Northing:** 158778.5 **Easting:** 378602.6	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 16.71 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 2:57:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/14/2013 10:27:00 AM	**Sampling Method:** Split spoon	**Total Depth (ft):** 20.0 **Depth to Water (ft):** 10.2

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample	Well Diagram
			0.0	GWS		fine to coarse GRAVEL, 40% fine to medium sand 10% silt, (10YR 5/1) gray, non plastic, dry, no odor, no staining, angular, well graded		
2						3.0		
			0.0	SW		fine silty SAND, 30% silt trace medium sand, (10YR 5/4) yellowish brown, non plastic, dry to slightly moist, no odor, no staining, poorly graded		
4						5.0		
	19	14 18 22 18	2.9	MLS		fine to medium sandy SILT, trace coarse sand, (5YR 4/3) reddish brown, non plastic medium soft, moist to wet, no odor, no staining, poorly graded		Casing (below ground)
6			0.8	SM		5.7 fine to coarse silty SAND, 20% fine gravel, (10YR 5/2) grayish brown, non plastic, stiff, slightly moist, no odor, no staining		
	19	22 23 25 28	10.1	SM		7.0 fine to coarse silty SAND, 30% silt 20% fine to coarse gravel, (2.5YR 4/3) reddish brown (5YR 5/1) gray (10YR 3/2) very dark grayish brown, non plastic, stiff, dry to slightly moist, no odor, no staining, well graded	RS-SB6-111513	Seal
8						9.0		
	22	4 12 23 34	1.8	SM		fine to coarse silty SAND, 30% silt 25% fine to coarse gravel, (5YR 5/2) reddish gray, non plastic, stiff, dry to slightly moist, no odor, no staining, well graded		
10						11.0		
	20	60 63 100/4"	1.3	SM		Same as above, with a moist to wet fine SAND layer from 11.7-12'		
12						13.0		
	24	23 25 43 45	0.9	SM		fine to coarse silty SAND, 30% silt 15% fine gravel, (5YR 7/1) light gray, non plastic, very stiff to dense, moist to wet, no odor, no staining, well graded		Filter pack
14						15.0		
	12	20 59 100/0"	1.2	SM		wet, Same as above		Screen
16								
						18.0		
18	12	34 100/5"	0.5	BEDROCK		highly weathered bedrock, possible shale.		
						20.0		
20								

End of boring at 20.0 ft. bgs.

RESOLUTION CONSULTANTS

Boring and Well Construction Log

RS-MW7

Client: Navy CLEAN	**Location:** WNW of dispensers, across street	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158994.4 **Easting:** 378519.8	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 7.72 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 2:20:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/14/2013 11:13:00 AM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 3.5

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample	Well Diagram
			2.2	SW		fine to coarse SAND, 20% fine to coarse gravel trace silt, (10YR 5/2) grayish brown, (5Y 2.5/2) black, non plastic, dry, no odor, no staining, subangular, well graded		
2								Casing (below ground)
								Seal
4						4.0		
			2.1	ML		fine to coarse silty SAND, 20% silt 15% fine to coarse gravel, (10R 2.5/2) very dusky red, (5YR 6/1) gray (10YR 6/1) gray, non plastic, slightly moist to moist, no odor, no staining, subangular, well graded		
						5.0		
	24	1 2 4 8	1.0	MLS		fine sandy SILT, 40% fine to medium sand little roots, (10YR 3/3) dark brown, non plastic, soft, dry, no odor, no staining		
6						6.1		
			2.3	MLS		fine sandy SILT, 40% fine sand trace medium sand, (10YR 5/1) gray, non plastic, dry, no odor, no staining		
						7.0		
	22	6 6 10 11	2.0	MLS		7.4 fine to medium sandy SILT, trace coarse gravel, (10YR 4/1) dark gray, non plastic, soft, dry, no odor, no staining, angular, well graded		
			2.0	MLS				
8						8.2 fine sandy SILT, trace coarse sand trace fine gravel, (10YR 5/1) gray, non plastic, firm, moist to moist, no odor, no staining, poorly graded	RS-SB7-111413	Filter pack
			3.4	SP		9.0 fine to medium SAND, trace silt, (2.5YR 6/3) light reddish brown, non plastic, very soft, wet, no odor, no staining		Screen
	17	9 10 12 10	3.2	MLS		fine to medium sandy SILT, 40% fine to medium sand trace coarse sand, (5YR 5/2) reddish gray, non plastic, medium dense, moist to wet, no odor, no staining, poorly graded		
10						11.0		
	18	11 8 12 11	1.2	SWG		fine to coarse gravelly SAND, 10% fine gravel trace silt, (7.5YR 5/1) gray, non plastic, soft, wet, no odor, no staining, subangular, well graded		
			1.9	MLS		11.7 fine to medium sandy SILT, 25% fine to medium sand trace coarse sand, (10YR 6/2) light brownish gray, moist to wet, no odor, no staining		
12						13.0		
	18	9 10 8 11	1.7	MLS		fine to medium sandy SILT, 25% fine to medium sand trace coarse sand, (10YR 6/2) light brownish gray, moist to wet, no odor, no staining		
14						15.0		Base backfill

End of boring at 15.0 ft. bgs.

RESOLUTION CONSULTANTS

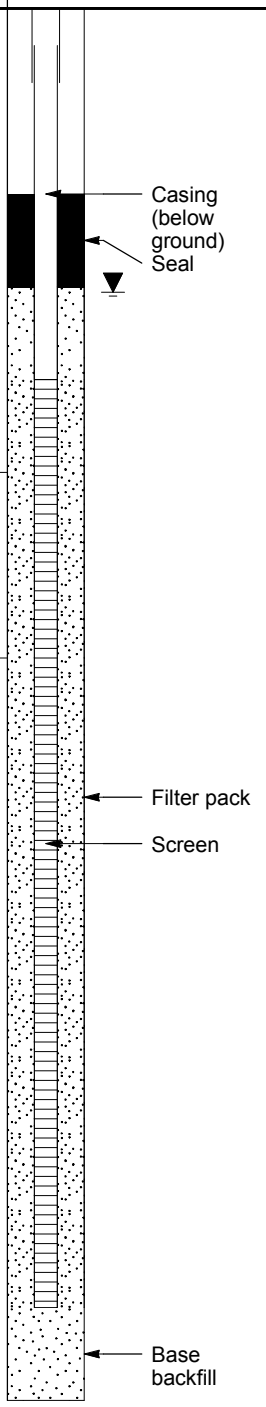
Boring and Well Construction Log

RS-MW8

Client: Navy CLEAN	**Location:** WNW of tank pad, across street	**Logged By:** Andrew Sayre
CTO: WE40	**Northing:** 158987.9 **Easting:** 378595.0	**Drilling Company:** GEOSEARCH, INC.
Contract: N6247011D8013	**Ground Elevation:** 7.91 NAVD88	**Driller Name/License #:**
Start Date: 11/13/2013 3:00:00 PM	**Drilling Method:** Hollow Stem Auger	**Drilling Equipment:**
Finish Date: 11/14/2013 10:27:00 AM	**Sampling Method:** Split spoon	**Total Depth (ft):** 15.0 **Depth to Water (ft):** 3.1

Depth (ft bgs)	Recovery Length (inches)	Blowcount(s)	Headspace	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Lab Sample
			2.2	SW		fine to coarse SAND, 10% fine to coarse gravel 10% silt, (10YR 5/3) brown, non plastic, dry, no odor, no staining, subrounded, well graded	
2						3.0	
			1.3	ML		medium sandy SILT, 35% fine to medium sand 20% fine gravel, (10YR 5/1) gray, non plastic, wet, no odor, no staining	
4						4.8	
				NSNR		5.0 Auger through boulders	
	10	1 3 1 1	0.8	SM		fine SAND, 30% silt trace medium sand, (10YR 5/2) grayish brown, non plastic, soft, wet, no odor, no staining, poorly graded	RS-SB8-111413
6						7.0	
	16	1 1 2 11	NR	MLS		7.4 fine to medium sandy SILT, trace fine gravel trace roots, (7.5YR 3/2) dark brown (10YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining, poorly graded	
				MLS		7.8	
8				SP		fine sandy SILT, trace medium sand trace roots, (10YR 3/2) very dark grayish brown, non plastic, soft, wet, no odor, no staining, poorly graded	
						9.0	
	14	9 11 11 12	1.3	SM		fine to medium SAND, trace silt, (2.5Y 4/6) olive brown, non plastic, soft, wet, no odor, no staining, poorly graded	
10						fine to medium SAND, 20% silt 10% coarse sand, (2.5YR 7/3) light reddish brown (10YR 6/2) light brownish gray, non plastic, medium dense to dense, wet, no odor, no staining, poorly graded	
						11.0	
	24	15 13 13 17	1.7	SM		same as above	
12						12.7	
			1.7	MLS		13.0 fine to coarse sandy SILT, 10% fine gravel, (10YR 5/1) gray, stiff, slightly moist, no odor, no staining, subangular, well graded	
	13	5 5 14 13	1.1	MLS		fine to coarse sandy SILT, trace fine gravel, (10YR 5/1) gray, moist to wet, no odor, no staining, angular well graded, Bottom 0.3' highly weathered rock fragments	
14						15.0	

End of boring at 15.0 ft. bgs.



Appendix D

Well/Piezometer Development Logs

RESOLUTION CONSULTANTS

Well/Piez. ID: MW-1

Well/Piezometer Development Record

Client: NAVSTA- WE 40 Site Location: NEX Service Station, Newport, RI

Project No: 60307272 Date: 11-19-13 Developer: Tom Croft

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: Top of PVC riser

Depth to Top of Screen (ft.): 3.2

Depth to Bottom of Screen (ft.): 13.2

Total Well Depth (ft.): 13.08 | after development 13.22

Depth to Static Water Level (ft.): 5.85

Geology at Screen Interval (if known): Silty Sand

Time of Water Level Measurement: 1350

Calculate Purge Volume (gal.): 0.162 gal/ft x 7.23 ft = 1.17 gal x 10 well volume = 11.7 gal.

Disposal Method: 55 gallon drum

Wellhead PID/FID: not measured

Original Well Development ☑ Redevelopment ☐ Date of Original Development

DEVELOPMENT METHOD Waterra pump with surge block **PURGE METHOD** Waterra pump with check valve

Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10F10101
Hach	2100Q	11090C012226

Field Testing Calibration Documentation Found in Field Notebook # Instrument Calibration Record Page #

Initial turbidity = 495 NTU (Checked with bailer pump on at 1408

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	Flow Rate (mL/min)
1430	4	15.20	6.59	498	>9,999	7.43	brown	none	surge 6-7	800
1446	8	16.30	6.43	479	>9,999	1.23	brown	none	surge 8-9	1,000
1458	12	16.56	6.38	462	>9999	0.50	brown	none	surge 10-11	2,000
1515	16	16.16	6.61	412	>9,999	1.96	brown	none	surge 11-12	2,000
1530	20	16.06	6.55	416	>9,999	2.43	brown	none	surge 12-13	2,000

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 11.7 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature Tom Croft Date: 11-19-13

Well/Piez. ID: MW2

RESOLUTION CONSULTANTS

Well/Piezometer Development Record

Client: ~~NEX NAVY~~ NAVY CLEAN Site Location: NEX NAVSTA NEWPORT, RI

Project No: 60307272 Date: 11/19/13 Developer: Andrew Sayre

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: top of PVC

Depth to Top of Screen (ft.): 4

Depth to Bottom of Screen (ft.): 14

Total Well Depth (ft.): 13.21

Depth to Static Water Level (ft.): 5.60

Geology at Screen Interval (if known): sandy silt

Time of Water Level Measurement: 1400

Calculate Purge Volume (gal.): 13 gal

Disposal Method: drum

Wellhead PID/FID: —

Original Well Development ☒ Redevelopment ☐ Date of Original Development: _____

DEVELOPMENT METHOD: Waterra pump, surge block, check valve **PURGE METHOD** ← Same

Field Testing Equipment Used: Make _____ Model _____ Serial Number _____

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Rate(ml/min) ~~Other~~
1407					567				B
1433	4	14.93	6.83	892	above limits	2.95	brown	—	500
1453	8	14.90	6.92	929		2.60	brown	—	1400
1516	12	15.40	7.00	954		1.80	brown	—	900
1536	16	16.43	7.01	973		0.37	brown	—	1100

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons
Maximum Turbidity Allowed _____ NTUs
Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☑	☐
Have parameters stabilized	☑	☐	☐

If no or N/A explain below: very silty

Signature: Andrew Sayre Date: 11/14/13

Well/Piez. ID: MW-3

RESOLUTION CONSULTANTS

Well/Piezometer Development Record

Client: NAVYCLEAN CTO-WE40 Site Location: NEX NAVSTA NEWPORT, RI

Project No: 60307272 Date: 11/14/13 Developer: Andrew Sayre

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: Top of PVC

Depth to Top of Screen (ft.): ~~14' 3.64~~

Depth to Bottom of Screen (ft.): (AS) ~~14' 13.614~~

Total Well Depth (ft.): ~~14' 14' 13.614~~

Depth to Static Water Level (ft.): 6.37

DTB 13.60

Geology at Screen Interval (if known): silty sand

Time of Water Level Measurement:

Calculate Purge Volume (gal.):

Disposal Method: Drum

Wellhead PID/FID:

Original Well Development ☒ Redevelopment ☐ Date of Original Development:

DEVELOPMENT METHOD Waterra Pump

PURGE METHOD waterra pump w/surge block + check valve

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # Page #

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other (Rate mL/min)
~~1050~~	~~4~~	~~15.54~~	~~6.14~~	~~1060~~	13.1				
1123	4	15.54	6.14	1060	Above limit	5.45	brown	—	850
1141	8	15.16	6.22	1054		5.66	brown	—	1300
1200	12	15.65	6.22	1030		5.23	brown	—	700
1220	17	15.90	6.22	1007		4.70	brown	—	1000
1240	20	15.89	6.24	1006		4.29	brown	—	900

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☑	☐
Have parameters stabilized	☑	☐	☐

If no or N/A explain below: very silty

Signature: Andrew Sayre Date: 11/14/13

RESOLUTION CONSULTANTS

Well/Piez. ID: MW4

Well/Piezometer Development Record

Client: NAVY Clean Site Location: NEX NAVSTA NEWPORT, RI

Project No: 60306.7272 Date: 11/20/13 Developer: Andrew Sayre

WELL/PIEZOMETER DATA

Well [X] Piezometer [ ] Diameter 2" Material PVC

Measuring Point Description top of PVC Geology at Screen (if known) silty SAND

Depth to Top of Screen (ft.) 3.35

Depth to Bottom of Screen (ft.) ~~14~~ 13.35 (AS) Time of Water Level Measurement 0930

Total Well Depth (ft.) 13.35 Calculate Purge Volume (gal.) 12 gal

Depth to Static Water Level (ft.) 6.01 Disposal Method Drum

Wellhead PID/FID

Original Well Development [X] Redevelopment [ ] Date of Original Development 11/20/13

DEVELOPMENT METHOD Waterra pump w/ surge block + check valve **PURGE METHOD**

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	pump rate ~~Other~~
0936		~~13.11~~	~~6.29~~	(AS)	18.6				
1032	4	13.11	6.29	1048	Above limit	4.95	Brown	—	1100
1108	8	15.62	6.26	1021	↓	3.09	brown	—	730
1127	12	16.02	6.22	1003	↓	~~3.09~~ 1.95	brown	—	1300

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	[ ]	[ ]	[ ]
Has required turbidity been reached	[ ]	[ ]	[ ]
Have parameters stabilized	[ ]	[ ]	[ ]

If no or N/A explain below:

Signature _____ Date: _____

RESOLUTION CONSULTANTS

Well/Piez. ID: MW-5

Well/Piezometer Development Record

Client: NAVSTA WE40 Site Location: WEX Service Station, Newport, RI

Project No: 6030 7272 Date: ~~11-19-13~~ 11-20-13 Developer: Tom Croft

WELL/PIEZOMETER DATA

Well ☑ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: Top of PVC riser

Depth to Top of Screen (ft.): 3.2

Depth to Bottom of Screen (ft.): 13.2

Total Well Depth (ft.): 12.28 / 13.26 after development

Depth to Static Water Level (ft.): 6.69

Geology at Screen Interval (if known): Silty sand

Time of Water Level Measurement: 1015

Calculate Purge Volume (gal.): 0.162 gal/ft x 5.69 ft = 0.92 gal x 10 well volumes = 9.2 gal.

Disposal Method: 55 gallon drum

Wellhead PID/FID: Not measured

Original Well Development ☑ Redevelopment ☐ Date of Original Development

DEVELOPMENT METHOD Waterra pump with surge block **PURGE METHOD** Waterra pump with check valve

Field Testing Equipment Used:

	Make	Model	Serial Number
	YSI	556	10F10401
	Hach	2100 Q	11090 C012226

Field Testing Calibration Documentation Found in Field Notebook # Instrument Calibration Page # Record

Initial turbidity >9,999 NTU (checked with bailer) Pump on at 1028

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	flow rate (mL/min)
1046	4	15.58	6.63	802	>9,999	2.05	brown	none	surge 7-8'	700
1102	8	15.70	6.62	813	>9,999	2.06	brown	none	surge 8-9'	1,000
1116	12	16.25	6.60	827	>9,999	1.25	brown	none	surge 9-10'	1,100
1128	16	15.47	6.78	851	>9,999	1.75	brown	none	surge 11-12'	1,200

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 9.2 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature Tom Croft Date: 11-19-13

RESOLUTION CONSULTANTS

Well/Piez. ID: MW-6

Well/Piezometer Development Record

Client: NAVSTA WE 40 Site Location: NEX Service Station, Newport, RI

Project No: 60307272 Date: 11-19-13 Developer: Tom Croft

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: top of pvc riser

Depth to Top of Screen (ft.): 10

Depth to Bottom of Screen (ft.): 20

Total Well Depth (ft.): 19.43

Depth to Static Water Level (ft.): 10.19

Geology at Screen Interval (if known): silty sand

Time of Water Level Measurement: 1100

Calculate Purge Volume (gal.): 0.162 gal/ft X 8.24 ft = 1.33 gal x 10 well volumes = 13.3 gal

Disposal Method: 55 gallon drum

Wellhead PID/FID: Not measured

Original Well Development ☑ Redevelopment ☐ Date of Original Development

DEVELOPMENT METHOD Waterra pump with surge block **PURGE METHOD** Waterra pump with check valve

Field Testing Equipment Used:

	Make	Model	Serial Number
	YSI	556	10F10M01
	Hach	2100Q	11090C012226

Field Testing Calibration Documentation Found in Field Notebook # Instrument Calibration Record Page #

Initial turbidity = 2.56 NTU (checked with bailer) ; pump on at 1104

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	Flow Rate (mL/min)
1122	4	14.61	6.89	442	> 9,999	5.11	brown	none	Surge 11-12'	600
1146	8	14.75	6.91	440	> 9,999	4.71	gray/brown	none	surge 13-14'	500
1218	12	13.92	7.02	447	> 9,999	6.86	gray	none	surge 15-16'	400
1238	14	15.41	6.95	444	> 9,999	7.52	gray	none	surge 17-18'	350
	16	15.09	7.00	446	> 9,999	7.82	gray	none	surge 19-20'	300

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 13.3 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature Tom Croft Date: 11-19-13

Well/Piez. ID: MW-7

Well/Piezometer Development Record

Client: NAVY Clean Site Location: NEX NAVSTA NEWPORT, RI

Project No: 60307272 Date: 11/18/13 Developer: Andrew Sayre

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description: top of PVC

Depth to Top of Screen (ft.): 2.89

Depth to Bottom of Screen (ft.): 12.89

Total Well Depth (ft.): 12.89

Depth to Static Water Level (ft.): _____

Geology at Screen Interval (if known): Silty Sand

Time of Water Level Measurement: _____

Calculate Purge Volume (gal.): _____

Disposal Method: _____

Wellhead PID/FID: _____

Original Well Development ☒ Redevelopment ☐ Date of Original Development 11/18/13

DEVELOPMENT METHOD: Waterra pump w/ surge block **PURGE METHOD**: _____

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	~~Vol~~ Flow rate ~~Other~~
1310	~~4~~ (AS)				Above limits		brown	none	
1325	~~8 4~~	17.80	6.76	838		3.80			1100
1333	~~+8 4~~	17.62	6.78	875		2.46			700
(AS) 1355	~~+17~~ +13 8	18.72	6.66	874		1.77			950
1417	~~+33~~ (AS) ~~17~~ 13	18.87	6.47	847		0.97			1500
1433	~~+57~~ 21 17	18.76	6.41	881		1.08			600
1457	21	18.60	6.51	860	↓	2.44 (1455)	↓	↓	800

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☑	☐	☐

If no or N/A explain below: to silty

Signature: _____ Date: 11/18/13

RESOLUTION CONSULTANTS

Well/Piez. ID: MW-8

Well/Piezometer Development Record

Client: NAVSTA WE 40 Site Location: NEX Service Station, Newport, RI

Project No: 60307272 Date: 11-18-13 Developer: Tom Cott

WELL/PIEZOMETER DATA

Well [X] Piezometer [ ] Diameter 2" Material PVC

Measuring Point Description: top of PVC riser

Depth to Top of Screen (ft.): 3.2

Depth to Bottom of Screen (ft.): 13.2

Total Well Depth (ft.): 13.22 / after development 13.28

Depth to Static Water Level (ft.): 3.50

Geology at Screen Interval (if known): Silty Sand

Time of Water Level Measurement: 1250

Calculate Purge Volume (gal.): 0.162 gal/ft x 9.72 ft = 1.57 gal x 10 well volumes = 15.7 gal

Disposal Method: 55 gallon drum

Wellhead PID/FID: not measured

Original Well Development [X] Redevelopment [ ] Date of Original Development

DEVELOPMENT METHOD Waterra pump with surge block **PURGE METHOD** Waterra pump with check valve

Field Testing Equipment Used:

	Make	Model	Serial Number
	YSI	556	10F10101
	Hach	2100Q	11090C012226

Field Testing Calibration Documentation Found in Field Notebook # Instrument Calibration Record Page #

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	flow rate (ml/min)
1332	4	17.35	8.31	603	>9,999	5.69	brown	none	surge 5-6'	400
1355	8	18.07	7.91	613	>9,999	4.55	↓	↓	surge 7-8'	800
1422	12	18.20	7.91	617	>9,999	4.53			surge 9-10'	800
1434	16	18.66	6.70	573	>9,999	4.51			surge 11-12'	800
1445	20	18.55	6.60	563	>9,999	4.51			surge 13-14'	800

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 15.7 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	[X]	[ ]	[ ]
Has required turbidity been reached	[ ]	[ ]	[ ]
Have parameters stabilized	[ ]	[ ]	[ ]

If no or N/A explain below:

Signature Tom Cott Date: 11-18-13

Appendix E

Groundwater Sampling Collection Records

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW1** Date **11/20/2013** Sample **RS-MW1-112013**

Time **3:50 PM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/20/2013 2:50:00 PM

Screen Bottom 14 ft bgs Water Level Depth 5.85 ft btoc

Diameter 2 in Well Depth 13.32 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
2:55 PM	5.85	0.33	-140.0	6.63	170	339	14.76	907
3:00 PM	5.86	0.18	-187.0	6.61	175	339	14.97	486
3:05 PM	5.86	0.15	-219.1	6.61	175	339	15.13	236
3:10 PM	5.86	0.18	-193.8	6.61	175	339	14.85	204
3:15 PM	5.86	0.27	-215.3	6.60	175	339	15.18	132
3:20 PM	5.86	0.24	-259.0	6.59	175	339	15.12	104
3:25 PM	5.86	0.20	-251.0	6.59	175	339	15.27	93.3
3:30 PM	5.86	0.20	-258.0	6.58	175	339	15.26	63.5
3:35 PM	5.86	0.16	-265.1	6.57	175	340	15.33	43.8
3:40 PM	5.86	0.17	-264.3	6.58	175	340	15.19	41.0
3:45 PM	5.86	0.17	-259.2	6.58	175	341	15.29	42.6

Total Purge Time 50 min Volume 8725 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW2** Date **11/20/2013** Sample **RS-MW2-112013**

Time **3:35 PM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/20/2013 2:52:00 PM

Screen Bottom 14 ft bgs Water Level Depth 5.61 ft btoc

Diameter 2 in Well Depth 12.5 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
2:57 PM	5.61	0.22	105.6	6.90	180	965	15.18	218
3:03 PM	5.62	0.19	44.0	6.90	180	966	15.18	148
3:07 PM	5.61	0.21	-20.0	6.91	185	966	15.28	121
3:12 PM	5.60	0.18	-73.2	6.91	180	966	15.03	90.8
3:18 PM	5.61	0.18	-111.0	6.91	180	968	14.94	75.1
3:22 PM	5.62	0.17	-111.2	6.92	170	966	14.94	58.1
3:26 PM	5.60	.014	-113.8	6.92	170	968	15.01	59.1
3:29 PM	5.61	0.18	-121.1	6.92	176	967	14.90	57.8

Total Purge Time 32 min Volume 5715 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW3** Date **11/20/2013** Sample **RS-MW3-112013**

Time **2:25 PM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/20/2013 1:30:00 PM

Screen Bottom 14 ft bgs Water Level Depth 6.38 ft btoc

Diameter 2 in Well Depth 13.72 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
1:55 PM	6.60	2.51	33.1	6.18	200	1024	14.63	201
2:00 PM	6.61	2.47	39.5	6.19	184	1013	14.59	131
2:04 PM	6.60	2.36	42.0	6.19	190	1010	14.74	120
2:08 PM	6.63	2.41	44.2	6.18	185	1006	14.79	61.1
2:14 PM	6.62	2.14	51.0	6.19	210	998	14.87	62.9
2:19 PM	6.62	2.35	50.0	6.19	210	997	14.77	61.2

Total Purge Time 24 min Volume 4656 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW4** Date **11/21/2013** Sample **RS-MW4-112113**

Time **10:55 AM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/21/2013 9:54:00 AM

Screen Bottom 14 ft bgs Water Level Depth 5.95 ft btoc

Diameter 2 in Well Depth 13.3 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
9:59 AM	5.97	0.90	-105.9	6.21	202	988	15.52	317
10:06 AM	5.96	0.56	-113.3	6.20	200	975	15.5	271
10:13 AM	5.96	0.54	-123.4	6.19	192	982	15.85	111
10:19 AM	5.95	0.43	-128.2	6.19	188	985	15.75	99.9
10:23 AM	5.95	0.40	-131.8	6.18	190	984	15.70	84.5
10:29 AM	5.95	0.34	-135.9	6.18	186	986	15.83	84.4
10:37 AM	5.95	0.58	-137.2	6.18	210	982	15.88	60.3
10:41 AM	5.95	0.48	-127.7	6.18	200	979	15.97	64.0
10:44 AM	5.95	0.46	-125.5	6.18	205	979	16.09	35.5
10:48 AM	5.95	0.36	-129.7	6.17	194	975	16.10	31.5
10:52 AM	5.96	0.56	-121.3	6.18	198	975	16.20	21.8
10:54 AM	5.95	0.52	-116.4	6.18	196	973	16.20	28.4

Total Purge Time 55 min Volume 10778 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW5** Date **11/21/2013** Sample **RS-MW5-112113**

Time **10:35 AM** Duplicate FD-GW-112113

Screen Top	4	ft bgs	Water Level Date	11/21/2013 9:50:00 AM	
Screen Bottom	14	ft bgs	Water Level Depth	6.69	ft btoc
Diameter	2	in	Well Depth	13.37	ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
10:10 AM	6.69	2.55	-240.9	6.59	300	867	14.27	91.9
10:15 AM	6.69	1.97	-230.2	6.58	250	863	14.02	92.4
10:20 AM	6.69	1.77	-211.3	6.57	250	860	14.34	22.2
10:25 AM	6.69	0.49	-197.7	6.55	210	855	14.78	23.6
10:30 AM	6.69	0.46	-194.6	6.56	200	857	14.56	24.0

Total Purge Time 20 min Volume 5050 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW6** Date **11/20/2013** Sample **RS-MW6-112013**

Time **2:30 PM** Duplicate

Screen Top 10 ft bgs Water Level Date 11/20/2013 2:00:00 PM

Screen Bottom 20 ft bgs Water Level Depth 10.13 ft btoc

Diameter 2 in Well Depth 19.31 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
2:10 PM	10.31	5.04	-42.1	6.90	140	466	14.98	20.5
2:15 PM	10.41	4.50	-72.0	6.88	140	463	15.08	17.2
2:20 PM	10.49	4.42	-68.9	6.88	140	463	15.45	17.6
2:25 PM	10.58	4.43	-67.1	6.86	140	462	15.25	18.5

Total Purge Time 15 min Volume 2100 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW7** Date **11/20/2013** Sample **RS-MW7-112013**

Time **1:10 PM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/20/2013 12:29:00 PM

Screen Bottom 14 ft bgs Water Level Depth 3.5 ft btoc

Diameter 2 in Well Depth 12.91 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
12:34 PM	3.70	0.28	153.1	6.17	144	883	17.68	137
12:38 PM	3.70	0.27	153.4	6.17	146	883	17.43	129
12:43 PM	3.70	0.26	165.8	6.17	144	887	17.16	80
12:49 PM	3.74	0.25	156.8	6.16	160	888	17.17	85.1
12:54 PM	3.75	0.23	155.7	6.15	165	892	17.25	55.8
12:58 PM	3.78	0.25	155.0	6.16	200	894	17.32	38.6
1:02 PM	3.84	0.24	156.0	6.16	205	895	17.40	43.778

Total Purge Time 28 min Volume 4430 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Groundwater Sample Collection

Event: WE40

Project No: 60307272 Site Name NS NEWPORT NEX SERVICE STATION

Well **RS-MW8** Date **11/20/2013** Sample **RS-MW8-112013**

Time **1:00 PM** Duplicate

Screen Top 4 ft bgs Water Level Date 11/20/2013 12:06:00 PM

Screen Bottom 14 ft bgs Water Level Depth 2.93 ft btoc

Diameter 2 in Well Depth 13.28 ft btoc

Time Measured	Depth To Water (ft)	DO (mg/l)	ORP (mv)	pH	Purge Rate (ml/min)	Specific Conductance (mS/cm)	Temp. (C)	Turbidity (NTU)
12:20 PM	3.08	3.62	157.9	6.39	275	607	16.81	59.1
12:25 PM	3.08	3.56	163.8	6.33	270	606	16.45	51.9
12:30 PM	3.08	3.72	170.3	6.26	270	600	16.32	51.5
12:35 PM	3.08	3.74	177.6	6.22	270	598	16.81	36.8
12:40 PM	3.09	3.87	187.0	6.18	270	594	17.01	27.2
12:45 PM	3.09	3.84	188.8	6.19	280	595	17.02	20.5
12:50 PM	3.09	3.91	192.0	6.17	300	594	17.09	19.5
12:55 PM	3.10	3.90	195.1	6.14	300	592	17.14	20.1

Total Purge Time 35 min Volume 9675 ml

bgs = Below Ground Surface; btoc = Below Top Of Casing

Appendix F

Bills of Lading

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

TMC ENVIRONMENTAL

BILL OF LADING

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	TMC 25149
	11.0.1.2.3		

GENERATOR

3. Generator's Name and Mailing Address
Naval Station Newport, Environmental Division
1 Simonpietri Drive
Newport RI 02841
Att: Mark Reilly
Defense Highway
Middletown RI 02842

4. Generator's Phone (4 0 1) 2 7 4 - 5 6 0 5

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
TMC Environmental	M A C 3 0 0 0 1 9 8 2 4	508 966-6000
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Northland Environmental, LLC 275 Allens Avenue Providence RI 02905	R I D 0 4 0 0 8 8 3 5 2	13,00 401 781-6340

11. Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-regulated material, non-hazardous soil	008	D.M	X.1600	P
b. Non-regulated material, non-hazardous groundwater	004	D.M	Y.X.800	G
c. Non-regulated material, non-hazardous liquids (Decon water)	001	D.M	X.Y.200	G
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes
3) (c)	

15. Special Handling Instructions and Additional Information
TMC Project #1013-0933 SB NO123
11a) LF01 11b) STAB01 11c) STAB01

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
MARK J. RIELLY	M. J Rielly	1	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Chris Childs		1	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
		01	07	14

Appendix G

Data Validation Memorandum

AECOM
250 Apollo Drive
Chelmsford, MA 01886-3140

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Data Validation Report

Project:	Naval Exchange Service Station (LUST No. LS-2295), Naval Station (NAVSTA) Newport, Rhode Island	
Laboratory:	Katahdin Analytical Services, Inc.	
Service Request:	WE40-1	
Analyses/Method:	EPA SW-846 Method 8015B for Nonhalogenated Organics (GC/FID) / 8015B for Gasoline Range Organics (GRO, C6-C12) and Extractable Total Petroleum Hydrocarbons (TPH, C10-C36)	
Validation Level:	Limited	
AECOM Project Number:	60307272.SA.SM	
Prepared by:	Kristin Rutherford/AECOM	Completed on: 12/19/2013
Reviewed by:	Constance Lapite/AECOM	File Name: WE40_Soil_GRO_TPH Report_121913

SUMMARY

The samples listed below were collected by Naval Exchange Service Station (LUST No. LS-2295), Naval Station (NAVSTA) Newport, Rhode Island site on November 14, 15, and 18, 2013.

Sample ID	Laboratory ID	Matrix/Sample Type
RS-SB1-111413	SG9044-1	Soil
RS-SB2-111513	SG9044-2	Soil
RS-SB3-111513	SG9044-3	Soil
RS-SB4-111813	SG9044-4	Soil
RS-SB5-111813	SG9044-5	Soil
RS-SB6-111513	SG9044-6	Soil
RS-SB7-111413	SG9044-7	Soil
RS-SB8-111413	SG9044-8	Soil
FD-SO-111813	SG9044-9	Field Duplicate of RS-SB5-111813

The data have been validated in accordance with the project-specific Work Plan, *Soil and Groundwater Investigation, Naval Exchange Service Station, NAVSTA Newport, RI; LUST No. LS-2295, Final* (Naval Facilities Engineering Command, Mid-Atlantic, 2013) and the following references:

- *DoD Quality Systems Manual (QMS) for Environmental Laboratories, version 4.2* (DoD EDQW, 2010);
- *USEPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures (April 22, 2013);*
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008);

- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846, Method 8015C, Nonhalogenated Organics by Gas Chromatography* (USEPA, 1996);
- laboratory quality control (QC) limits, as applicable.

The USEPA New England and National Data Validation Functional Guidelines were modified to accommodate the non-CLP methodologies. In the absence of method-specific direction for validation, AECOM professional judgment was used as appropriate.

REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

✓	Data completeness (chain-of-custody (COC))/sample integrity
✗	Holding times and sample preservation
✓	Initial calibration/continuing calibration verification
✗	Laboratory blanks/trip blanks/equipment blanks
✗	Surrogate spike recoveries
NA	Matrix spike (MS) and/or matrix spike duplicate (MSD) results
✓	Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) results
✓	Field duplicates
✓	Sample results/reporting issues

The symbol (✓) indicates that no results were qualified based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that a quality control (QC) nonconformance resulted in the qualification of data. Any QC nonconformance that resulted in the qualification of data is discussed below. In addition, nonconformances or other issues that were noted during validation, but did not result in qualification of data, may be discussed for informational purposes only.

The data appear valid as reported and may be used for decision making purposes. Selected data points were estimated, negated, and/or rejected due to nonconformances of certain QC criteria (see discussion below). Qualified sample results are presented in Table 1.

RESULTS

Data Completeness

The data package was reviewed and found to meet acceptance criteria for completeness:

- The COCs were reviewed for completeness of information relevant to the samples and requested analyses, and for signatures indicating transfer of sample custody.
- The laboratory sample login sheet(s) were reviewed for issues potentially affecting sample integrity, including the condition of sample containers upon receipt at the laboratory.
- Completeness of analyses was verified by comparing the reported results to the COC requests.

Holding Times/Sample Preservation

Sample preservation and preparation/analysis holding times were reviewed for conformance with the QC acceptance criteria.

Samples RS-SB7-111413 and RS-SB8-111413 were re-extracted for Extractable TPH analysis one day past the 14 day holding time. The positive results for Extractable TPH were qualified as estimated (J) and may be biased low.

Nonconformances are summarized in Attachment A in Table A-1.

Qualified sample results are shown in Table 1.

Initial Calibration/Continuing Calibration Verification

Calibration data were reviewed for conformance with the QC acceptance criteria to ensure that:

- the initial calibration (ICAL) percent relative standard deviation (%RSD), correlation coefficient (r)/coefficient of determination (r^2), and/or response factor method acceptance criteria were met;
- the initial calibration verification standard (ICV) percent recovery acceptance criteria were met;
- the continuing calibration verification standard (CCV) method percent difference or percent drift (%Ds) and RF acceptance criteria were met; and
- the retention time method acceptance criteria were met.

The QC acceptance criteria were met.

Laboratory Blanks/Equipment Blanks/Trip Blanks

Laboratory method blanks and equipment rinsate blanks were evaluated as to whether there were contaminants detected above the method detection limit (MDL).

Data validation qualifications for individual samples are based on the maximum contaminant concentration detected in all associated blanks.

Method and equipment rinsate blank results were reviewed for conformance with the QC acceptance criteria. Detected results in blanks are not discussed in this data validation report if the associated results were nondetect or if qualification of sample results was not required.

Nonconformances are summarized in Attachment A in Table A-2. Sample results were qualified as follows:

Blank type	Blank result	Sample result	Action for samples
Method, Storage, Field, Trip, or Instrument*	Detects	Not detected	No qualification
	≤ LOQ	< LOQ	Report sample LOQ value with a U
		≥ RL and ≤ 2x the LOQ	Report the sample result with a U**
		≥ 2x the LOQ	No qualifications
	> LOQ	< LOQ	Report sample LOQ value with a U
		≥ LOQ and < blank contamination	Report the sample result with a U

Blank type	Blank result	Sample result	Action for samples
		≥ LOQ and ≥ blank contamination	If the result is ≤2x blank result, report the sample result U.** If the result is > 2x blank result, no qualification is required.**
* Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 g/L.			
**Based on AECOM professional judgment			

LOQ (Limit of Quantitation) is equivalent to the lowest calibration standard.

Qualified sample results are shown in Table 1.

Surrogate Spike Recoveries

The surrogate recoveries (%Rs) were reviewed for conformance with the QC acceptance criteria.

Nonconformances are summarized in Attachment A in Table A-3. Data qualification on the basis of surrogate recovery nonconformances was as follows:

	Action	
Criteria	**Detected Compounds**	**Nondetected Compounds**
%R > Upper Limit (UL)	J	No qualification
20% = %R < Lower Limit (LL)	J	UJ
%R < 20%	J	R

Qualified sample results are shown in Table 1.

MS/MSD Results

MS/MSD analyses were not performed on samples reported in this SDG, consistent with the Work Plan. There were no validation actions taken on this basis.

LCS/LCSD Results

The LCS/LCSD %Rs and/or relative percent recoveries (RPDs) were reviewed for conformance with the QC acceptance criteria.

All QC acceptance criteria were met.

Field Duplicate Results

Sample FD-SO-111813 was collected as the field duplicate of sample RS-SB5-111813.

Field duplicate RPDs were reviewed for conformance with the AECOM QC criteria of ≤50% for solid matrices and ≤30% for aqueous matrices. These criteria apply if both results were greater than five times the quantitation limit (LOQ).

All QC acceptance criteria were met.

Sample Results/Reporting Issues

All compounds detected at concentrations less than the quantitation limit (LOQ) but greater than the method detection limit (MDL) were qualified by the laboratory as estimated (J). This "J" qualifier was retained during data validation.

Any sample that was analyzed at a dilution due to high concentrations of target or non-targets was checked to ensure that the results and/or sample specific LODs and LOQs were adjusted accordingly by the laboratory.

The percent solids data were reviewed to confirm that NFG 2008 specified criteria were met.

All percent solids criteria were met.

QUALIFICATION ACTIONS

Sample results qualified as a result of validation actions are summarized in Table 1. All actions are described above.

ATTACHMENTS

Attachment A: Nonconformance Summary Tables

Attachment B: Qualifier Codes and Explanations

Attachment C: Reason Codes and Explanations

Table 1 - Data Validation Summary of Qualified Data

Sample ID	Matrix	Compound	Result	LOD	LOQ	Units	Validation Qualifiers	Validation Reason
FD-SO-111813	SO	GASOLINE RANGE ORGANICS	140	2.1	2.6	MG_KG	J	s
RS-SB3-111513	SO	GASOLINE RANGE ORGANICS	8.4	2.0	2.4	MG_KG	U	bl
RS-SB5-111813	SO	GASOLINE RANGE ORGANICS	170	2.1	2.6	MG_KG	J	s
RS-SB7-111413	SO	GASOLINE RANGE ORGANICS	3.4	2.2	2.7	MG_KG	U	bl
RS-SB7-111413	SO	TPH-EXTRACTABLE	3.0	3.8	5.0	MG_KG	J	h
RS-SB8-111413	SO	TPH-EXTRACTABLE	7.5	4.4	5.8	MG_KG	J	h

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Attachment A

Non Conformance Summary Tables

Table A-1 - Hold Times

Sample ID	Compound	Days from Sampling to Prep	Status	Days from Prep to Analysis	Status
RS-SB1-111413 (RE)	TPH-EXTRACTABLE	15	>14 days	3	OK @40 days
RS-SB7-111413 (RE)	TPH-EXTRACTABLE	15	>14 days	3	OK @40 days
RS-SB8-111413 (RE)	TPH-EXTRACTABLE	15	>14 days	3	OK @40 days

Table A-2 - Lab Blanks

Blank ID	Compound	Result	QL	Units	Associated Samples
WG134903-1RA	GASOLINE RANGE ORGANICS	2.3	2.0	MG_KG	FD-SO-111813 RS-SB1-111413 RS-SB2-111513 RS-SB3-111513 RS-SB4-111813 RS-SB5-111813 RS-SB6-111513 RS-SB7-111413 RS-SB8-111413
WG135097-1	TPH-EXTRACTABLE	10	3.8	MG_KG	RS-SB1-111413 RS-SB7-111413 RS-SB8-111413

Table A-3 - Surrogates

Sample ID	Surrogate	% Recovery	Lower Limit	Upper Limit
FD-SO-111813	4-BROMOFLUOROBENZENE	79	81	119
RS-SB5-111813	4-BROMOFLUOROBENZENE	77	81	119

Attachment B

Qualifier Codes and Explanations

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
JN	The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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Attachment C

Reason Codes and Explanations

Reason Code	Explanation
be	Equipment blank contamination
bf	Field blank contamination
bl	Laboratory blank contamination
c	Calibration issue
d	Reporting limit raised due to chromatographic interference
fd	Field duplicate RPDs
h	Holding times
i	Internal standard areas
k	Estimated Maximum Possible Concentration (EMPC)
l	LCS or OPR recoveries
lc	Labeled compound recovery
ld	Laboratory duplicate RPDs
lp	Laboratory control sample/laboratory control sample duplicate RPDs
m	Matrix spike recovery
md	Matrix spike/matrix spike duplicate RPDs
nb	Negative laboratory blank contamination
p	Chemical preservation issue
r	Dual column RPD
q	Quantitation issue
s	Surrogate recovery
su	Ion suppression
t	Temperature preservation issue
x	Percent solids
y	Serial dilution results
z	ICS results

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Data Validation Report

Project:	Naval Exchange Service Station (LUST No. LS-2295), Naval Station (NAVSTA) Newport, Rhode Island
Laboratory:	Katahdin Analytical Services, Inc.
Service Request:	WE40-1
Analyses/Method:	EPA SW-846 Method 8260B for VOCs (GC/MS)
Validation Level:	Limited
AECOM Project Number:	60307272.SA.SM

Prepared by:	Kristin Rutherford/AECOM	Completed on: 12/19/2013
Reviewed by:	Constance Lapite/AECOM	File Name: WE40_Soil_GW_VOC Report_121913

SUMMARY

The samples listed below were collected by AECOM from the Naval Exchange Service Station (LUST No. LS-2295), Naval Station (NAVSTA) Newport, Rhode Island site on November 8, 14, 15, 18, 20, and 21, 2013.

Sample ID	Laboratory ID	Matrix/Sample Type
RS-MW1-112013	SG9180-1	Ground water
RS-MW2-112013	SG9180-2	Ground water
RS-MW3-112013	SG9180-3	Ground water
RS-MW4-112113	SG9180-4	Ground water
RS-MW5-112113	SG9180-5	Ground water
RS-MW6-112013	SG9180-6	Ground water
RS-MW7-112013	SG9180-7	Ground water
RS-MW8-112013	SG9180-8	Ground water
FD-GW-112113	SG9180-9	Field Duplicate of RS-MW5-112113
TB-GW-110813	SG9180-10	Trip Blank
RS-SB1-111413	SG9044-1	Soil
RS-SB2-111513	SG9044-2	Soil
RS-SB3-111513	SG9044-3	Soil
RS-SB4-111813	SG9044-4	Soil
RS-SB5-111813	SG9044-5	Soil
RS-SB6-111513	SG9044-6	Soil
RS-SB7-111413	SG9044-7	Soil
RS-SB8-111413	SG9044-8	Soil
FD-SO-111813	SG9044-9	Field Duplicate of RS-SB5-111813
TB-SO-110813	SG9044-10	Trip Blank

The data have been validated in accordance with the project-specific Work Plan, *Soil and Groundwater Investigation, Naval Exchange Service Station, NAVSTA Newport, RI; LUST No. LS-2295, Final* (Naval Facilities Engineering Command, Mid-Atlantic, 2013) and the following references:

- *DoD Quality Systems Manual (QMS) for Environmental Laboratories, version 4.2* (DoD EDQW, 2010);
- *USEPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures* (April 22, 2013);
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008);
- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW846, Method 8260B, Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry* (USEPA, 1996);
- laboratory quality control (QC) limits, as applicable.

The USEPA New England and National Data Validation Functional Guidelines were modified to accommodate the non-CLP methodologies. In the absence of method-specific direction for validation, AECOM professional judgment was used as appropriate.

REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

✓	Data completeness (chain-of-custody (COC)/sample integrity
✓	Holding times and sample preservation
✓	GC/MS performance checks
✗	Initial calibration/continuing calibration verification
✓	Laboratory blanks/trip blanks/equipment blanks
✓	Surrogate spike recoveries
NA	Matrix spike (MS) and/or matrix spike duplicate (MSD) results
✓	Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) results
✓	Field duplicates
✓	Internal standards
✓	Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that a QC nonconformance resulted in the qualification of data. Any QC nonconformance that resulted in the qualification of data is discussed below. In addition, nonconformances or other issues that were noted during validation, but did not result in qualification of data, may be discussed for informational purposes only.

The data appear valid as reported and may be used for decision making purposes. Selected data points were qualified as estimated, negated, and/or rejected due to nonconformances of certain QC criteria (see discussion below). Qualified sample results are presented in Table 1.

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RESULTS

Data Completeness

The data package was reviewed and found to meet acceptance criteria for completeness:

- The COCs were reviewed for completeness of information relevant to the samples and requested analyses, and for signatures indicating transfer of sample custody.
- The laboratory sample login sheet(s) were reviewed for issues potentially affecting sample integrity, including the condition of sample containers upon receipt at the laboratory.
- Completeness of analyses was verified by comparing the reported results to the COC requests.

The laboratory identification for samples RS-MW4-112113 and RS-MW5-112113 was incorrect; they noted the date in the ID as 112013. A revised data package was requested.

Holding Times/Sample Preservation

Sample preservation and preparation/analysis holding times were reviewed for conformance with the QC acceptance criteria.

The date and time of collection for Trip Blank TB-GW-110813 was recorded as the date and time the sample was received from the laboratory. However, the date and time of collection for trip blanks is arbitrary. Convention is to use the date and time at which the trip blank was included in the cooler with the field samples, which could have been no earlier than 11/21/13. Since the trip blank was analyzed within holding time of 11/21/13, no validation action is required.

GC/MS Performance Checks

The data were reviewed to ensure that the 4-bromofluorobenzene (BFB) tuning was performed at the correct frequency and that the method acceptance criteria were met. All samples were analyzed within 12 hours of the BFB tunes.

Initial Calibration/Continuing Calibration Verification

Calibration data were reviewed for conformance with the QC acceptance criteria to ensure that:

- the initial calibration (ICAL) percent relative standard deviation (%RSD), correlation coefficient (r)/coefficient of determination (r^2), and/or response factor method acceptance criteria were met;
- the initial calibration verification standard (ICV) percent recovery acceptance criteria were met;
- the continuing calibration verification standard (CCV) percent difference or percent drift (%Ds) and RF acceptance criteria were met; and
- the retention time method acceptance criteria were met.

Nonconformances are summarized in Attachment A in Table A-1. Data qualification to the analytes associated with the specific ICAL, ICV and/or CCV was as follows:

ICAL and CCV Response Factor Nonconformances:

Criteria	Actions	
	Detected Results	**Nondetected Results**
System Performance Check Compounds		
RF <0.10 for chloromethane, 1,1-dichloroethane, and bromoform or RF<0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane	J (all compounds)	UJ (all compounds)
All compounds except SPCCs and Poor Performing Compounds[1]		
RF <0.05	J	R[2]
RF <0.05 but > 0.01 (if low standard response is adequate)	J[3]	UJ[3]
Poor Performing Compounds[1]		
RF <0.01	J	R
[1]As defined in Table 15 of the NFG.		
[2] AECOM professional judgment may be used to either raise reporting level or to estimate reporting limit if low standard response is adequate.		
[3] AECOM professional judgment was used.		
Sample results qualified as not detected (U) due to blank contamination are not rejected, but estimated (UJ).		
SPCCs - System Performance Check Compounds		

ICAL Linearity Nonconfomances:

Criteria	Actions	
	Detected Results	**Nondetected**
%RSD > 30% for CCCs 1,1-dichloroethene, toluene, chloroform, ethylbenzene, 1,2-dichloropropane, vinyl chloride	J (all compounds)*	UJ (all compounds)*
%RSD > 15% and quantitation based on mean RF	J	UJ
r or r^2 < 0.99 and quantitation based on linear regression	J*	UJ*
* No guidance in NFG, thus AECOM professional judgment was used		
CCCs - Calibration Check Compounds		

ICV Recovery Nonconformances

Criteria	Actions*	
	Detected Results	**Nondetected Results**
Recovery > 120	J	UJ
Recovery < 80	J	UJ
* No guidance in NFG, thus AECOM professional judgment was used		

CCV Linearity Nonconfomances:

Criteria	Actions	
	Detected Results	**Nondetected Results**
%D > 20%	J	UJ
%Drift >20%	J*	UJ*

* No guidance in NFG, thus AECOM professional judgment was used

Qualified sample results are shown in Table 1.

Laboratory Blanks/Equipment Blanks/Trip Blanks

Laboratory method blanks, equipment rinsate and trip blanks were evaluated as to whether there were contaminants detected above the method detection limit (MDL).

Data validation qualifications for individual samples are based on the maximum contaminant concentration detected in all associated blanks.

Detected results in blanks are not discussed in this data validation report if the associated results were nondetect or if qualification of sample results was not required.

The QC acceptance criteria were met and/or qualification of the sample results was not required. There were no detected target analytes reported in the trip blank samples (TB-GW-110813 and TB-SO-110813).

Surrogate Spike Recoveries

The surrogate recoveries (%Rs) were reviewed for conformance with the QC acceptance criteria. All QC acceptance criteria were met.

MS/MSD Results

MS/MSD analyses were not performed on samples reported in this SDG, consistent with the Work Plan. There were no validation actions taken on this basis.

LCS/LCSD Results

The LCS/LCSD %Rs and/or relative percent recoveries (RPDs) were reviewed for conformance with the QC acceptance criteria. All QC acceptance criteria were met.

Field Duplicate Results

Field duplicate RPDs were reviewed for conformance with the AECOM QC criteria of $\leq$50% for solid matrices and $\leq$30% for aqueous matrices. These criteria apply if both results were greater than five times the quantitation limit (QL). All QC acceptance criteria were met.

Internal Standard Results

The internal standard (IS) recoveries were reviewed for conformance with the QC acceptance criteria. All QC acceptance criteria were met.

Sample Results/Reporting Issues

All compounds detected at concentrations less than the limit of quantitation (LOQ) but greater than the MDL were qualified by the laboratory as estimated (J). This "J" qualifier was retained during data validation.

Any sample that was analyzed at a dilution due to high concentrations of target or non-targets was checked to ensure that the results and/or sample specific LOQs and LODs were adjusted accordingly by the laboratory.

The percent solids data were reviewed to confirm that NFG 2008 specified criteria were met.

All percent solids criteria were met.

QUALIFICATION ACTIONS

Sample results qualified as a result of validation actions are summarized in Table 1. All actions are described above.

ATTACHMENTS

Attachment A: Nonconformance Summary Tables

Attachment B: Qualifier Codes and Explanations

Attachment C: Reason Codes and Explanations

Table 1 - Data Validation Summary of Qualified Data

Sample ID	Matrix	Compound	Result	LOD	LOQ	Units	Validation Qualifiers	Validation Reason
FD-GW-112113	WG	METHYL TERT-BUTYL ETHER	0.60	0.50	1.0	UG_L	J	c
RS-MW1-112013	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
RS-MW2-112013	WG	METHYL TERT-BUTYL ETHER	3.3	0.50	1.0	UG_L	J	c
RS-MW3-112013	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
RS-MW4-112113	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
RS-MW5-112113	WG	METHYL TERT-BUTYL ETHER	0.72	0.50	1.0	UG_L	J	c
RS-MW6-112013	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
RS-MW7-112013	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
RS-MW8-112013	WG	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c
TB-GW-110813	WQ	METHYL TERT-BUTYL ETHER	0.50	0.50	1.0	UG_L	UJ	c

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Attachment A

Non Conformance Summary Tables

Table A-1 - Calibrations

CCV ID	Compound	%D	%D Limits	Associated Samples
WG135258-4 11/27/13 09:16	MTBE	20.9	<20.0	TB-GW-110813 RS-MW1-112013 RS-MW2-112013 RS-MW3-112013 RS-MW4-112113 RS-MW5-112113 RS-MW6-112013 RS-MW7-112013 RS-MW8-112013 FD-GW-112113

Attachment B

Qualifier Codes and Explanations

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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Attachment C

Reason Codes and Explanations

Reason Code	Explanation
be	Equipment blank contamination
bf	Field blank contamination
bl	Laboratory blank contamination
c	Calibration issue
d	Reporting limit raised due to chromatographic interference
fd	Field duplicate RPDs
h	Holding times
i	Internal standard areas
k	Estimated Maximum Possible Concentration (EMPC)
l	LCS or OPR recoveries
lc	Labeled compound recovery
ld	Laboratory duplicate RPDs
lp	Laboratory control sample/laboratory control sample duplicate RPDs
m	Matrix spike recovery
md	Matrix spike/matrix spike duplicate RPDs
nb	Negative laboratory blank contamination
p	Chemical preservation issue
r	Dual column RPD
q	Quantitation issue
s	Surrogate recovery
su	Ion suppression
t	Temperature preservation issue
x	Percent solids
y	Serial dilution results
z	ICS results

Appendix H

Laboratory Reports

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE40 SDG NO. WE40-1 SDG NOS. TO FOLLOW SG9044 and SG9180
SAS NO.

CONTRACT NO. 68307272
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000009	✓	
2. **SDG Case Narrative**	0000012	0000016	✓	
3. **SDG Cover Sheet/Traffic Report**	0000010	0000011	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000036	0000039	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	NA	NA	✓	
Method Blank Summary (Form IV VOA)	0000040	0000042	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000043	0000047	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000048	0000051	✓	
b. Sample Data	0000052	0000148		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000149	0000228		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000229	0000243	✓	
Blank Data	0000244	0000264	✓	
Martix Spike/Matrix Spike Duplicate Data	0000265	0000279	✓	

CASE NO. WE40 SDG NO. WE40-1 SDG NOS. TO FOLLOW SG-9044 and SG-9180
SAS NO.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
TPH				
5. ~~Semivolatiles~~ Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000289	0000292	✓	
MS/MSD Summary (Form III SV)	~~00~~ NA	NA	✓	
Method Blank Summary (Form IV SV)	0000293	0000295	✓	
~~GC/MS Instrument Performance Check~~ GC Analytical Sequence Form VIII (Form V SV)	0000296	0000296	✓	
Internal Standard Area and RT Summary (Form VIII SV)	NA	NA	✓	
b. Sample Data	0000297	0000338		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000339	0000368		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	NA	NA	✓	
Blank Data	0000369	0000378	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000379	0000393	✓	
e. Raw GPC Data	0000394	0000401	✓	
GRO				
6. ~~Pesticides~~ Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	0000402	0000405	✓	
MS/MSD Duplicate Summary (Form III PEST)	0000406	0000408	✓	
~~Method Blank Summary (Form IV PEST)~~ GC Analytical Sequence Form VIII	0000409	0000409	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE40 SDG NO. WE40-1 SDG NOS. TO FOLLOW SG9044 and SG9180
SAS NO.

GRO

6. ~~Pesticides~~ Data (Cont.)	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
b. Sample Data	0000410	0000446		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	0000447	0000485		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)			✓	
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			✓	
Analyte Resolution Summary (Form VI PEST-4)			✓	
Performance Evaluation Mixture (Form VI PEST-5)			✓	
Individual Standard Mixture A (FORM VI PEST-6)			✓	
Individual Standard Mixture B (FORM VI PEST-7)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Analytical Sequence (Form VIII PEST)			✓	
Florisil Cartridge Check (Form IX PEST-1)			✓	
Pesticide GPC Calibration (Form IX PEST-2)			✓	
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			✓	
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	0000486	0000495	✓	
Matrix Spke/Matrix Spike Duplicate Data	0000496	0000505	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE40 SDG NO. WE404 SDG NOS. TO FOLLOW SG9044 and SG9180
SAS NO.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. ~~Pesticides~~ GRO Data (Cont.)				
e. Raw GPC Data	0000506	0000513	✓	
f. Raw Florisil Data	NA	NA	✓	
7. Miscellaneous Data				
Original preparation and analysis forms or of preparation and analysis logbook pages-VOA	0000280	0000288	✓	
Internal sample and sample extract transfer chain-of-custody records	0000026	0000035	✓	
Screening records	NA	NA	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Manual Integration Codes	0000017	0000017	✓	
	NA	NA	✓	
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments ____)	NA	NA	✓	
Chain-of-Custody Records	0000020	0000021	✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)	NA	NA	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000018	0000019	✓	
Login Chain of Custody	0000022	0000025	✓	
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	NA	NA	✓	
	NA	NA	✓	
10. Other Records (describe or list)				
Telephone Communication Log	NA	NA	✓	
	NA	NA	✓	
	NA	NA	✓	

11. Comments:

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE40	SDG NO. WE40-1	SDG NOS. TO FOLLOW S69044 and S69180
		SAS NO.

Completed by: (CLP Lab)	[signature] (Signature)	Melanie Brown/Data Mgmt (Printed Name/Title)	12-4-13 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. WE40 SDG NO. WE404 SDG NOS. TO FOLLOW SG9044 and SG9180
CONTRACT NO. 60307272
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000010	0000011	✓	
2. SDG Narrative	0000012	0000016	✓	
3. Sample Log-In Sheet (DC-1)	NA	NA	✓	
4. Inventory Sheet (DC-2))	0000001	0000009	✓	
5. Traffic Report/Chain of Custody Record(s)	0000020	0000021	✓	
Inorganic Analysis - Metals				
6. Data Sheet (Form I-IN)	0000514	0000518	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	0000519	0000525	✓	
8. CRQL Standard(Form IIB-IN)	0000526	0000527	✓	
9. Blanks (Form III-IN)	0000528	0000533	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	0000534	0000534	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	NA	NA	✓	
12. Matrix Spike Sample Recovery(Form VA-IN)	NA	NA	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	NA	NA	✓	
14. Duplicates (Form VI-IN)	NA	NA	✓	
15. Laboratory Control Sample(Form VII-IN)	0000535	0000538	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	NA	NA	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	0000539	0000544	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	0000545	0000545	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	NA	NA	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	0000546	0000546	✓	
21. Preparation Log (Form XII-IN)	0000547	0000548	✓	
22. Analysis Run Log (Form XIII-IN)	0000549	0000552	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	NA	NA	✓	
25. ICP-AES Raw Data	0000552	0000580	✓	
26. ICP-MS Raw Data	NA	NA	✓	
27. Mercury Raw Data	NA	NA	✓	
28. Cyanide Raw Data	NA	NA	✓	
29. Preparation Logs Raw Data (Wet Chemistry)	NA	NA	✓	
30. Percent Solids Determination Log	NA	NA	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	NA	NA	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	NA	NA	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	NA	NA	✓	
Sample Receipt Condition Report	~~NA~~ 0000018	~~NA~~ 0000019	✓	
Logbooks and Supporting Documents	0000581	0000583	✓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	NA	NA	✓	
Internal Chain of Custody	0000026	0000035	✓	
Login Chain of Custody Report	0000022	0000025	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	NA	NA	✓	
Analysis Records	NA	NA	✓	
Description Duplicate Precision Form	NA	NA	✓	
35. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	
DAS Specifications	NA	NA	✓	

36. Comments

Completed by:
(CLP Lab) [signature] Melanie Brown/Data Mngmt 12-4-13
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. WE40 SDG NO. WE40-1 SDG NOS. TO FOLLOW SG9044 and SG9180
CONTRACT NO. 68307272
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000010	0000014	✓	
2. SDG Narrative	0000012	0000016	✓	
3. Sample Log-In Sheet (DC-1)	NA	NA	✓	
4. Inventory Sheet (DC-2))	0000001	0000009	✓	
5. Traffic Report/Chain of Custody Record(s)	0000020	0000021	✓	
Inorganic Analysis - Wet Chemistry				
6. Data Sheet (Form I-IN)	0000591	0000603	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	NA	NA	✓	
8. CRQL Standard(Form IIB-IN)	NA	NA	✓	
9. Blanks (Form III-IN)	0000584	0000587	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	NA	NA	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	NA	NA	✓	
12. Matrix Spike Sample Recovery(Form VA-IN)	NA	NA	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	NA	NA	✓	
14. Duplicates (Form VI-IN)	0000590	0000590	✓	
15. Laboratory Control Sample(Form VII-IN)	0000588	0000589	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	NA	NA	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	NA	NA	✓	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	NA	NA	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	NA	NA	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	NA	NA	✓	
21. Preparation Log (Form XII-IN)	NA	NA	✓	
22. Analysis Run Log (Form XIII-IN)	NA	NA	✓	

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	NA	NA	✓	
25. ICP-AES Raw Data	NA	NA	✓	
26. ICP-MS Raw Data	NA	NA	✓	
27. Mercury Raw Data	NA	NA	✓	
28. Cyanide Raw Data	NA	NA	✓	
29. Preparation Logs Raw Data (Wet Chemistry)	0000604	0000610	✓	
30. Percent Solids Determination Log	NA	NA	✓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	NA	NA	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	NA	NA	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	NA	NA	✓	
Sample Receipt Condition Report	0000008	0000019	✓	
Manual Integration Codes	0000017	0000017	✓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	NA	NA	✓	
Internal Chain of Custody	0000026	0000035	✓	
Login Chain of Custody Report	0000022	0000025	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	NA	NA	✓	
Analysis Records	NA	NA	✓	
Description Duplicate Precision Form	NA	NA	✓	
35. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	
DAS Specifications	NA	NA	✓	

36. Comments

Completed by:
(CLP Lab) [signature] Melanie Brown Data Mgmt 12-4-13
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

AECOM ENVIRONMENT
NAVSTA NEWPORT
CTO WE40-04 (60307272)
SDG: WE40-1
SG9044 & SG9180

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
AECOM ENVIRONMENT
NAVSTA NEWPORT CTO WE40-04 (60307272)
SDG: WE40-1
SG9044 & SG9180

Sample Receipt

The following samples were received on November 18 and 21, 2013 and were logged in under Katahdin Analytical Services work order numbers SG9044 and SG9180 for a hardcopy due date of December 02, 2013.

KATAHDIN Sample No.	AECOM ENVIRONMENT Sample Identification
SG9044-1	RS-SB1-111413
SG9044-2	RS-SB2-111513
SG9044-3	RS-SB3-111513
SG9044-4	RS-SB4-111813
SG9044-5	RS-SB5-111813
SG9044-6	RS-SB6-111513
SG9044-7	RS-SB7-111413
SG9044-8	RS-SB8-111413
SG9044-9	FD-SO-111813
SG9044-10	TB-SO-110813
SG9180-1	RS-MW1-112013
SG9180-2	RS-MW2-112013
SG9180-3	RS-MW3-112013
SG9180-4	RS-MW4-112113
SG9180-5	RS-MW5-112113
SG9180-6	RS-MW6-112013
SG9180-7	RS-MW7-112013
SG9180-8	RS-MW8-112013
SG9180-9	FD-GW-112113
SG9180-10	TB-GW-110813
SG9180-11	IDW-GW-112113

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WE40-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA and/or for the specific methods listed below or on the Report of Analysis.

8015 GRO Analysis

Samples SG9044-5, 6, 9 and SG9180-11 were manually integrated for the GRO range and/or the surrogate 4-bromofluorobenzene. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Samples SG9044-5 and 9 had low recoveries for the surrogate 4-bromofluorobenzene which were outside of the laboratory established acceptance limits.

The calibration verification standards (CV) (files 9GK4001A, 9GK4015A and 9GK4040) had high responses for naphthalene, which resulted in %D's that were greater than 20%. Since the method requirement applies to only the GRO range response, which was acceptable, the associated samples were not reanalyzed.

The GRO range was detected above ½ the reporting limit, but below the LOQ, in the method blank WG134903-1RA. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds ½ the reporting limit. The analyte that was also detected in any of the associated samples was flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed concurrently with the sample.

8260B Analysis

The calibration verification standard (file D6916) had a high response for the target analyte methyl tert-butyl ether that resulted in a %D that exceeded the DoD QSM acceptance limits of 20%.

8015 TPH Analysis

Samples SG9044-1DL, 1RE, 2RE, 3REDL, 5REDL, 6REDL, 8RE, 9REDL, and SG9180-11 were manually integrated for the TPH range and/or the surrogate o-terphenyl. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Sample SG9044-1RE had a recovery for the surrogate o-terphenyl that was high and outside of the laboratory established acceptance limits. Since this was a re-extract, no further action was taken.

The target range Extractable TPH was detected above the LOQ in the method blank WG135097-1. All samples associated with this blank were re-extracted. Samples SG9044-1, 7, and 8 were reextracted one day out of hold time. The results for both extractions are reported for these samples. If the range was also detected in the associated samples, the range is flagged with a "B" qualifier indicating they were detected in the method blank analyzed concurrently with the sample.

The CV (file AGK20378A) had a high response for C30, which resulted in a %D that was greater than 20%. Since the method requirement applies to only the TPH range response, which was acceptable, the associated samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG WE40-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Number SG9180-11 was digested for ICP analysis on 11/26/13 (QC Batch GK26ICW2) in accordance with USEPA Method 3010A.

ICP analyses of SDG WE40-1 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010C. All samples were analyzed within holding times and all analytical run QC criteria were met.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Number SG9180-11 was digested for mercury analysis on 11/25/13 (QC Batch GK25HGW2) in accordance with USEPA Method 7470A. Duplicate laboratory control samples were digested in this batch.

Mercury analysis of the SDG WE40-1 sample digestates were performed using a Cetac M6100 automated mercury analyzer in accordance with USEPA Method 7470A. All analytical run QC criteria were met and all samples were analyzed within holding times.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column.

These LOQs, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of SDG WE40-1 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for ignitability were performed according to "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA,III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Analyses for total solids were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times, and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
12.04.13

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client: Rescon	KAS PM: JO	Sampled By: Client
Project:	KIMS Entry By: CW	Delivered By: Andrew Harker
KAS Work Order#: 5G9044	KIMS Review By: JO	Received By: CW
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11/18/13 18:15

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	X				
2. Chain of Custody present in cooler?	X				
3. Chain of Custody signed by client?	X				
4. Chain of Custody matches samples?	X				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	X				Temp (°C): 5.1
Samples received at <6 °C w/o freezing?	X				Note: Not required for metals analysis.
Ice packs or ice present?	X				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?				✓	
Soil/Sediment:					
Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
D.I. Water - Received within 48 hour HT?				✓	
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

0000018

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client: AECOM	KAS PM: SO	Sampled By: Client
Project:	KIMS Entry By: GW	Delivered By: KAS
KAS Work Order#: 56-9180	KIMS Review By:	Received By: GW
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 11-21-13/16:40

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2.2
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	✓				
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
7. Trip Blank present in cooler?	✓			✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

RESOLUTION CONSULTANTS

SG 9044

CHAIN OF CUSTODY RECORD

Client/Project Name: Navy CLEAN CTO WE40	Project Location: NAVSTA Newport, RI
Project Number: 60307272	Field Logbook No.:
Sampler (Print Name)/(Affiliation): Andrew Sayre, Tom Croft /RESCON	Chain of Custody Tape Nos.:
Signature:	Send Results/Report to: constance.lapite@aecom.com; TAT: 10 day

Container Type: P – Plastic; A – Amber Glass; G – Clear Glass; V – VOA Vial; O – Other; E – Encore

Preservation: 1 – HCl, 4°; 2 – H2SO4, 4°; 3 – HNO3, 4°; 4 – NaOH, 4°; 5 – NaOH/ZnAc, 4°; 6 – Na2S2O3, 4°; 7 – 4°

Matrix Codes: DW – Drinking Water; WW – Wastewater; GW – Groundwater; SW – Surface Water; ST – Storm Water; W – Water; S – Soil; SL – Sludge; SD – Sediment; SO – Solid; A – Air; L – Liquid; P – Product

Field Sample No./Identification	Date	Time	COMP	GRAB	Sample Container (Size/Mat'l)	Matrix	Preserv.	Depth Collected	Analysis Requested: VOCs-SW-846 8260 (BTEX plus MTBE)	Analysis Requested: TPH-GRO via SW-846 8015, DRO via SW 846-8100	Lab I.D.	Remarks
RS-SB1- 111413	111413	14:25		X	VOA, 4oz Glass	S	Methanol	5-7	X	X		
RS-SB2-111513	11/15/13	12:15		X	VOA, 4oz Glass	S	Methanol	5-7	X	X		
RS-SB3- 111513	11/15/13	1400		X	VOA, 4oz Glass	S	Methanol	7-9	X	X		
RS-SB4- 111813	11/18/13	11:45		X	VOA, 4oz Glass	S	Methanol	5-7	X	X		
RS-SB5- 111813	11/18/13	10:15		X	VOA, 4oz Glass	S	Methanol	5-7	X	X		
RS-SB6- 111513	11/15/13	09:15		X	VOA, 4oz Glass	S	Methanol	7-9	X	X		
RS-SB7- 111413	11/14/13	09:45		X	VOA, 4oz Glass	S	Methanol	8-9	X	X		
RS-SB8- 111413	11/14/13	12:00		X	VOA, 4oz Glass	S	Methanol	5-7	X	X		
FD-SO- 111813	11/18/13	10:20		x	VOA, 4oz Glass	S	Methanol	5-7	X	X		
~~Trip Blank~~ TB-SO-110813	11/08/13	10:45		X	VOA	S	Methanol		X			

Relinquished by: (Print Name)/(Affiliation) Andrew Sayre / RESCON Signature:	Date: 11/18/13 Time: 1500	Received by: (Print Name)/(Affiliation) Signature:	Date: 11/18/13 Time: 1500
Relinquished by: (Print Name)/(Affiliation) Signature:	Date: Time:	Received by: (Print Name)/(Affiliation) Signature:	Date: Time:
Relinquished by: (Print Name)/(Affiliation)	Date: Time:	Received by: (Print Name)/(Affiliation)	Date: Time:

Analytical Laboratory (Destination): KATAHDIN

Sample Shipped Via: | Temp blank

0000020

C:\Users\sayrea\Documents\Navsta Newport\Chain-of-Custody_ResCon_Navsta Newport.doc

Serial No. _____

RESOLUTION CONSULTANTS

SG-9180

CHAIN OF CUSTODY RECORD

Client/Project Name: Navy CLEAN CTO WE40	Project Location: NAVSTA Newport, RI
Project Number: 60307272	Field Logbook No.:
Sampler (Print Name)/(Affiliation): Andrew Sayre, Tom Croft /RESCON	Chain of Custody Tape Nos.:
Signature:	Send Results/Report to: constance.lapite@aecom.com; TAT: 10 day

Analysis Requested

Field Sample No./Identification	Date	Time	COMP	GRAB	Sample Container (Size/Mat'l)	Matrix	Preserv.	Depth Collected	VOCs-SW-846 8260 (BTEX plus MTBE)	TPH-GRO via SW-846 8015, DRO via SW 846-8100	RCRA 8 Metals --SW-846 6010/6020	Ignitability - SW-846 1030	Lab I.D.	Remarks
RS-MW1-112013	11/20/13	1550		X	VOA,	GW	hcl		X					
RS-MW2-112013	11/20/13	1535		X	VOA,	GW	hcl		X					
RS-MW3-112013	11/20/13	1425		X	VOA,	GW	hcl		X					
RS-MW4-112113	11/21/13	1056		X	VOA	GW	hcl		X					
RS-MW5-112113	11/21/13	1035		X	VOA	GW	hcl		X					
RS-MW6-112013	11/20/13	1430		X	VOA	GW	hcl		X					
RS-MW7-112013	11/20/13	1310		X	VOA	GW	hcl		X					
RS-MW8-112013	11/20/13	1300		X	VOA	GW	hcl		X					
FD-GW-112113	11/21/13	1040		x	VOA	GW	hcl		X					
~~Trip Blank~~ TB-GW-110813 (A5)	11/08/13	1100		X	VOA	GW	hcl		X					
IDW-GW-112113	11/21/13	11:00			VOA, 250ml/HDPE, 1L/ Amber, 250ml/Amber	GW	Hcl, HNO_3		X	X	X	X		

Container Type: P – Plastic; A – Amber Glass; G – Clear Glass; V – VOA Vial; O – Other; E – Encore

Preservation: 1 – HCl, 4°; 2 – H2SO4, 4°; 3 – HNO3, 4°; 4 – NaOH, 4°; 5 – NaOH/ZnAc, 4°; 6 – Na2S2O3, 4°; 7 – 4°

Matrix Codes: DW – Drinking Water; WW – Wastewater; GW – Groundwater; SW – Surface Water; ST – Storm Water; W – Water; S – Soil; SL – Sludge; SD – Sediment; SO – Solid; A – Air; L – Liquid; P – Product

Relinquished by: (Print Name)/(Affiliation) Andrew Sayre /Rescon Signature:	Date: 11/21/13 Time: 1247	Received by: (Print Name)/(Affiliation) Signature:	Date: 11/21/13 Time: 1247
Relinquished by: (Print Name)/(Affiliation) Signature:	Date: Time:	Received by: (Print Name)/(Affiliation) Signature:	Date: Time:
Relinquished by: (Print Name)/(Affiliation)	Date: Time:	Received by: (Print Name)/(Affiliation)	Date: Time:

Analytical Laboratory (Destination): KATAHDIN

Sample Shipped Via:

Temp blank

0 0 0 0 2

C:\Users\sayrea\Documents\Navsta Newport\Chain-of-Custody_ResCon_Navsta Newport.doc

Serial No. _____

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 22, 2013
10:50 AM

Login Number: SG9044

Quote/Incoming: AECOM-NPWE40-0

Account: METCAL001 NoWeb
AECOM Environment

Project: AECOM-NPWE40-04
NAVSTA Newport CTO WE40-04

Primary Report Address:
Constance Lapite
AECOM Environment
701 Edgewater Drive

Wakefield,MA 01880
Constance.Lapite@aecom.com

Primary Invoice Address:
Keith Wright
AECOM
4840 Cox Rd.

Glen Allen,VA 23060

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits without variance. "U" LOD. "J" flag between DL and LOQ. TPH=C10-C36. GRO=C6-C12. TPH-analyze by SW8100. VOA-MeOH only.
CHECK NO.	:	
CLIENT PO#	:	need PO
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	5.1
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	NAVSTA Newport CTO WE40-04 (60307272)
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Constance. Email EDD to Constance. Send invoices to Keith.
SDG ID	:	WE40-1
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG9044-1	RS-SB1-111413	14-NOV-13 14:25	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	COURIER-BILLING				
Solid	S	SW8015M-GRO	28-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	28-NOV-13	4oz Glass		
Solid	S	SW8260-S	28-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	14-DEC-13	4oz Glass		

SG9044-2	RS-SB2-111513	15-NOV-13 12:15	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	29-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	29-NOV-13	4oz Glass		
Solid	S	SW8260-S	29-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	15-DEC-13	4oz Glass		

SG9044-3	RS-SB3-111513	15-NOV-13 14:00	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	29-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	29-NOV-13	4oz Glass		
Solid	S	SW8260-S	29-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	15-DEC-13	4oz Glass		

SG9044-4	RS-SB4-111813	18-NOV-13 11:45	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	02-DEC-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	02-DEC-13	4oz Glass		
Solid	S	SW8260-S	02-DEC-13	40 mL Vial+MEOH		
Solid	S	TS	18-DEC-13	4oz Glass		

SG9044-5	RS-SB5-111813	18-NOV-13 10:15	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	02-DEC-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	02-DEC-13	4oz Glass		
Solid	S	SW8260-S	02-DEC-13	40 mL Vial+MEOH		
Solid	S	TS	18-DEC-13	4oz Glass		

11.22.13

0000022

Login Number: SG9044

Quote/Incoming: AECOM-NPWE40-0

Account: METCAL001 NoWeb

AECOM Environment

Project: AECOM-NPWE40-04

NAVSTA Newport CTO WE40-04

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG9044-6	RS-SB6-111513	15-NOV-13 09:15	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	29-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	29-NOV-13	4oz Glass		
Solid	S	SW8260-S	29-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	15-DEC-13	4oz Glass		

SG9044-7	RS-SB7-111413	14-NOV-13 09:45	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	28-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	28-NOV-13	4oz Glass		
Solid	S	SW8260-S	28-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	14-DEC-13	4oz Glass		

SG9044-8	RS-SB8-111413	14-NOV-13 12:00	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	28-NOV-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	28-NOV-13	4oz Glass		
Solid	S	SW8260-S	28-NOV-13	40 mL Vial+MEOH		
Solid	S	TS	14-DEC-13	4oz Glass		

SG9044-9	FD-SO-111813	18-NOV-13 10:20	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8015M-GRO	02-DEC-13	40 mL Vial+MEOH		
Solid	S	SW8015M-TPH	02-DEC-13	4oz Glass		
Solid	S	SW8260-S	02-DEC-13	40 mL Vial+MEOH		
Solid	S	TS	18-DEC-13	4oz Glass		

SG9044-10	TB-SO-110813	08-NOV-13 10:45	18-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8260-S	22-NOV-13	40 mL Vial+MEOH		**Trip Blank, no TS jar**
Solid	S	TS	08-DEC-13			

Total Samples: ***10*** ***Total Analyses:*** ***39***

11.22.13

0000023

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Dec. 23, 2013
10:48 AM

Login Number: SG9180

Account: METCAL001 NoWeb
AECOM Environment

Project: AECOM-NPWE40-04
NAVSTA Newport CTO WE40-04

Quote/Incoming: AECOM-NPWE40-0

Primary Report Address:
Constance Lapite
AECOM Environment
701 Edgewater Drive

Wakefield,MA 01880
Constance.Lapite@aecom.com

Primary Invoice Address:
Keith Wright
AECOM
4840 Cox Rd.

Glen Allen,VA 23060

Report CC Addresses:

Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits without variance. "U" LOD. "J" flag between DL and LOQ. TPH=C10-C36. GRO=C6-C12. TPH-analyze by SW8100.
CHECK NO.	:	
CLIENT PO#	:	60307272 ATS11--12S-15180-LA12
CLIENT PROJECT MANAGE	:	
CONTRACT	:	N62470-11-D-8013
COOLER TEMPERATURE	:	2.2
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	GN
PM	:	JO
PROJECT NAME	:	NAVSTA Newport CTO WE40-04
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send HC and CD to Constance. Email EDD to Constance. Send invoices to Keith.
SDG ID	:	WE40-1
SDG STATUS	:	End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG9180-1	RS-MW1-112013	20-NOV-13 15:50	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	COURIER-BILLING				
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

SG9180-2	RS-MW2-112013	20-NOV-13 15:35	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

SG9180-3	RS-MW3-112013	20-NOV-13 14:25	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

SG9180-4	RS-MW4-112113	21-NOV-13 10:55	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	05-DEC-13	40mL Vial+HCl		

SG9180-5	RS-MW5-112113	21-NOV-13 10:35	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	05-DEC-13	40mL Vial+HCl		

SG9180-6	RS-MW6-112013	20-NOV-13 14:30	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

SG9180-7	RS-MW7-112013	20-NOV-13 13:10	21-NOV-13			02-DEC-13	04-DEC-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

Reissue

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Nov. 23, 2013
09:00 AM

Login Number: SG9180

Quote/Incoming: AECOM-NPWE40-0

Account: METCAL001 NoWeb
AECOM Environment

Project: AECOM-NPWE40-04
NAVSTA Newport CTO WE40-04

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SG9180-8	RS-MW8-112013	20-NOV-13 13:00	21-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	04-DEC-13	40mL Vial+HCl		

SG9180-9	FD-GW-112113	21-NOV-13 10:40	21-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	05-DEC-13	40mL Vial+HCl		

SG9180-10	TB-GW-110813	08-NOV-13 11:00	21-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	22-NOV-13	40mL Vial+HCl		

SG9180-11	IDW-GW-112113	21-NOV-13 11:00	21-NOV-13			02-DEC-13	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	P	RCRA-METALS				
SW3010-PREP		SW6010-ARSENIC		SW6010-BARIUM		
SW6010-CADMIUM		SW6010-CHROMIUM		SW6010-LEAD		
SW6010-SELENIUM		SW6010-SILVER		SW7470-MERCURY		
Aqueous	S	SW1010-IGNITABILITY	05-DEC-13	250mL Plastic		
Aqueous	S	SW8015M-GRO	05-DEC-13	40mL Vial+HCl		
Aqueous	S	SW8015M-TPH	28-NOV-13	1L N-Amber Glass		
Aqueous	S	SW8260-S	05-DEC-13	40mL Vial+HCl		

Total Samples: 11 ***Total Analyses: 16***

11.23.13

000025

Katahdin Analytical Services, Inc.

Container Transfer History for SG9044

Samplenum SG9044-1

Container Id SG9044-1A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-1B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-1C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-1D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-1E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-2

Container Id SG9044-2A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-2B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-2C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-2D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-2E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	

0000026

Katahdin Analytical Services, Inc.
Container Transfer History for SG9044

Samplenum SG9044-2

Container Id SG9044-2E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-3

Container Id SG9044-3A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-3B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-3C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-3D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-3E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-4

Container Id SG9044-4A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-4B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-4C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-4D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-4E **Containertype 2oz Glass** **Matrix SL**

0000027

Katahdin Analytical Services, Inc.
Container Transfer History for SG9044

Samplenum SG9044-4

Container Id SG9044-4E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-5

Container Id SG9044-5A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-5B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-5C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-5D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-5E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-6

Container Id SG9044-6A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-6B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-6C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-6D **Containertype 100g Glass** **Matrix SL**

0000028

Katahdin Analytical Services, Inc.

Container Transfer History for SG9044

Samplenum SG9044-6

Container Id SG9044-6D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-6E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-7

Container Id SG9044-7A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-7B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-7C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-7D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-7E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-8

Container Id SG9044-8A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-8B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-8C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

0000029

Katahdin Analytical Services, Inc.
Container Transfer History for SG9044

Samplenum SG9044-8

Container Id SG9044-8C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-8D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-8E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-9

Container Id SG9044-9A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-9B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-9C **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
22-NOV-13 12:33	VOA_FRIDGE1	GC	JPRESCOTT	N	

Container Id SG9044-9D **Containertype 100g Glass** **Matrix SL**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-9E **Containertype 2oz Glass** **Matrix SL**

Product TS, SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	WALK-IN	GNICKERSON	N	
20-NOV-13 12:12	WALK-IN	WET CHEMISTRY	KPAWLINA	N	
20-NOV-13 12:58	WET CHEMISTRY	WALK-IN	KPAWLINA	N	
25-NOV-13 10:00	WALK-IN	ORGANIC PREP	WSTONE	N	
25-NOV-13 12:02	ORGANIC PREP	WALK-IN	KFARR	N	
29-NOV-13 08:15	WALK-IN	ORGANIC PREP	JSPEARIN	N	
29-NOV-13 11:15	ORGANIC PREP	WALK-IN	JSPEARIN	N	

Samplenum SG9044-10

Container Id SG9044-10A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9044-10B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

0000030

Katahdin Analytical Services, Inc.

Container Transfer History for SG9044

Samplenum SG9044-10

Container Id SG9044-10B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
19-NOV-13 09:55	LOGIN	VOA_FRIDGE1	GNICKERSON	**N**	

0000031

Katahdin Analytical Services, Inc.
Container Transfer History for SG9180

Samplenum SG9180-1

Container Id SG9180-1A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-1B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-1C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-2

Container Id SG9180-2A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-2B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-2C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-3

Container Id SG9180-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-3C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-4

Container Id SG9180-4A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-4B **Containertype 40mL Vial+HCl** **Matrix AQ**

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Katahdin Analytical Services, Inc.
Container Transfer History for SG9180

Samplenum SG9180-4

Container Id SG9180-4B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-4C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-5

Container Id SG9180-5A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-5B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-5C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-6

Container Id SG9180-6A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-6B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-6C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-7

Container Id SG9180-7A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-7B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-7C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

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Katahdin Analytical Services, Inc.
Container Transfer History for SG9180

Samplenum SG9180-7

Container Id SG9180-7C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-8

Container Id SG9180-8A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-8B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-8C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-9

Container Id SG9180-9A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-9B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-9C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-10

Container Id SG9180-10A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-10B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Samplenum SG9180-11

Container Id SG9180-11A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
26-NOV-13 13:20	VOA_FRIDGE1	GC	JPRESCOTT	N	

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Katahdin Analytical Services, Inc.
Container Transfer History for SG9180

Samplenum SG9180-11

Container Id SG9180-11A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
26-NOV-13 14:10	GC	VOA_FRIDGE1	JPRESCOTT	N	

Container Id SG9180-11B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	
27-NOV-13 11:59	VOA_FRIDGE1	GC/MS	RCROCKER	N	
29-NOV-13 11:24	GC/MS	VOA_FRIDGE1	RCROCKER	N	

Container Id SG9180-11C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8260-S

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-11D **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-11E **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-11F **Containertype 40mL Vial+HCl** **Matrix AQ**

Product SW8015M-GRO

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:15	LOGIN	VOA_FRIDGE1	GNICKERSON	N	

Container Id SG9180-11G **Containertype 250mL Plastic+HNO3** **Matrix AQ**

Product SW7470-MERCURY, SW6010-SELENIUM, SW6010-SILVER, SW6010-LEAD, SW6010-CADMIUM, SW6010-ARSENIC, SW6010-BARIUM, SW6010-CHROMIUM

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:06	LOGIN	WALK-IN	GNICKERSON	N	
25-NOV-13 10:08	WALK-IN	METALS PREP	HHENNINGSEN	N	
25-NOV-13 12:45	METALS PREP	WALK-IN	EMORGAN	N	
26-NOV-13 09:11	WALK-IN	METALS PREP	EMORGAN	N	
26-NOV-13 11:26	METALS PREP	WALK-IN	EMORGAN	N	

Container Id SG9180-11H **Containertype 1L N-Amber Glass** **Matrix AQ**

Product SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 11:35	LOGIN	WALK-IN	GNICKERSON	N	

Container Id SG9180-11I **Containertype 1L N-Amber Glass** **Matrix AQ**

Product SW8015M-TPH

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:06	LOGIN	WALK-IN	GNICKERSON	N	

Container Id SG9180-11J **Containertype 250mL Plastic** **Matrix AQ**

Product SW1010-IGNITABILITY

Transferdate	From	To	Analyst	Custody Break	Comments
22-NOV-13 13:06	LOGIN	WALK-IN	GNICKERSON	N	
02-DEC-13 10:20	VOA_FRIDGE1	WET CHEMISTRY	ZSMITH	N	
02-DEC-13 16:55	WET CHEMISTRY	WALK-IN	ZSMITH	N	

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VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** AQ
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
RS-MW1-112013	SG9180-1		93.0		92.4		92.3		95.7	
TB-GW-110813	SG9180-10		100.		99.1		97.0		103.	
IDW-GW-112113	SG9180-11		97.4		97.3		100.		99.0	
RS-MW2-112013	SG9180-2		97.1		95.2		92.4		99.7	
RS-MW3-112013	SG9180-3		95.4		93.7		93.2		98.0	
RS-MW4-112113	SG9180-4		94.4		92.1		94.0		96.8	
RS-MW5-112113	SG9180-5		98.8		96.9		97.8		102.	
RS-MW6-112013	SG9180-6		94.2		97.4		94.6		97.6	
RS-MW7-112013	SG9180-7		99.4		99.8		101.		102.	
RS-MW8-112013	SG9180-8		95.6		98.1		100.		98.0	
FD-GW-112113	SG9180-9		94.2		99.2		101.		98.2	
Laboratory Control S	WG134916-1		91.2		85.8		90.0		90.7	
Method Blank Sample	WG134916-2		87.6		92.4		97.5		91.4	
Laboratory Control S	WG134993-1		91.0		86.1		86.3		93.3	
Method Blank Sample	WG134993-2		87.0		87.9		86.9		91.7	
Laboratory Control S	WG135258-1		102.		88.5		83.1		99.4	
Method Blank Sample	WG135258-2		98.6		96.1		94.4		100.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** SL
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
TB-SO-110813	SG9044-10DL		88.8		87.9		95.4		92.5	
RS-SB1-111413	SG9044-1DL		88.8		80.8		87.0		93.1	
RS-SB2-111513	SG9044-2DL		88.9		86.2		88.6		92.9	
RS-SB3-111513	SG9044-3DL		88.8		82.6		84.8		92.0	
RS-SB4-111813	SG9044-4DL		86.8		81.9		84.9		92.2	
RS-SB5-111813	SG9044-5DL		101.		84.6		84.8		92.9	
RS-SB6-111513	SG9044-6DL		89.6		82.8		82.8		90.8	
RS-SB7-111413	SG9044-7DL		88.8		83.8		81.8		91.3	
RS-SB8-111413	SG9044-8DL		88.3		82.2		81.6		92.3	
FD-SO-111813	SG9044-9DL		98.6		82.4		81.4		92.3	
Methanol Blank	WG134916-5		88.1		89.9		99.0		92.1	
Methanol Blank	WG134993-5		87.4		84.3		86.2		91.6	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	64-130
TOL	TOLUENE-D8	85-115
BFB	P-BROMOFLUOROBENZENE	85-120
DCA	1,2-DICHLOROETHANE-D4	58-134

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : C4422.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG134916-2
Date Analyzed : 22-NOV-13
Time Analyzed : 11:04

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG134916-1	C4418.D	11/22/13	08:59
Methanol Blank	WG134916-5	C4423.D	11/22/13	11:36
TB-SO-110813	SG9044-10DL	C4424.D	11/22/13	12:07

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : C4448.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG134993-2
Date Analyzed : 23-NOV-13
Time Analyzed : 10:48

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG134993-1	C4445.D	11/23/13	08:57
Methanol Blank	WG134993-5	C4449.D	11/23/13	11:22
RS-SB1-111413	SG9044-1DL	C4450.D	11/23/13	11:55
RS-SB2-111513	SG9044-2DL	C4451.D	11/23/13	12:29
RS-SB3-111513	SG9044-3DL	C4452.D	11/23/13	13:02
RS-SB4-111813	SG9044-4DL	C4453.D	11/23/13	13:35
RS-SB5-111813	SG9044-5DL	C4454.D	11/23/13	14:09
RS-SB6-111513	SG9044-6DL	C4455.D	11/23/13	14:42
RS-SB7-111413	SG9044-7DL	C4456.D	11/23/13	15:16
RS-SB8-111413	SG9044-8DL	C4457.D	11/23/13	15:49
FD-SO-111813	SG9044-9DL	C4458.D	11/23/13	16:23

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : D6921.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG135258-2
Date Analyzed : 27-NOV-13
Time Analyzed : 12:47

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG135258-1	D6918.D	11/27/13	10:44
TB-GW-110813	SG9180-10	D6922.D	11/27/13	13:19
RS-MW1-112013	SG9180-1	D6923.D	11/27/13	13:52
RS-MW2-112013	SG9180-2	D6924.D	11/27/13	14:24
RS-MW3-112013	SG9180-3	D6925.D	11/27/13	14:57
RS-MW4-112113	SG9180-4	D6926.D	11/27/13	15:30
RS-MW5-112113	SG9180-5	D6927.D	11/27/13	16:03
RS-MW6-112013	SG9180-6	D6928.D	11/27/13	16:36
RS-MW7-112013	SG9180-7	D6929.D	11/27/13	17:09
RS-MW8-112013	SG9180-8	D6930.D	11/27/13	17:42
FD-GW-112113	SG9180-9	D6931.D	11/27/13	18:15
IDW-GW-112113	SG9180-11	D6932.D	11/27/13	18:48

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : CB699.D
Instrument ID : GCMS-C

SDG : WE40-1
Date Analyzed : 13-NOV-13
Time Analyzed : 09:33
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.5		
75	30.0 - 60.0% of mass 95	45.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.5		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	60.1		
175	5.0 - 9.0% of mass 174	4.6	7.64	1
176	95.0 - 101.0% of mass 174	57.6	95.90	1
177	5.0 - 9.0% of mass 176	3.8	6.60	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG134365-6	C4228.D	11/13/13	10:01
Initial Calibration	WG134365-5	C4229.D	11/13/13	10:32
Initial Calibration	WG134365-4	C4230.D	11/13/13	11:04
Initial Calibration	WG134365-3	C4231.D	11/13/13	11:35
Initial Calibration	WG134365-2	C4232.D	11/13/13	12:07
Initial Calibration	WG134365-1	C4233.D	11/13/13	12:38
Independent Source	WG134365-7	C4234A.D	11/13/13	13:25

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : CB706.D
Instrument ID : GCMS-C

SDG : WE40-1
Date Analyzed : 22-NOV-13
Time Analyzed : 07:51
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.9		
75	30.0 - 60.0% of mass 95	46.7		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.0		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	59.7		
175	5.0 - 9.0% of mass 174	4.4	7.42	1
176	95.0 - 101.0% of mass 174	57.8	96.97	1
177	5.0 - 9.0% of mass 176	3.9	6.83	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG134916-4	C4417.D	11/22/13	08:17
Laboratory Control S	WG134916-1	C4418.D	11/22/13	08:59
Method Blank Sample	WG134916-2	C4422.D	11/22/13	11:04
Methanol Blank	WG134916-5	C4423.D	11/22/13	11:36
TB-SO-110813	SG9044-10DL	C4424.D	11/22/13	12:07

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : CB707.D
Instrument ID : GCMS-C

SDG : WE40-1
Date Analyzed : 23-NOV-13
Time Analyzed : 07:50
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	16.5		
75	30.0 - 60.0% of mass 95	46.8		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	62.8		
175	5.0 - 9.0% of mass 174	5.0	7.98	1
176	95.0 - 101.0% of mass 174	61.7	98.17	1
177	5.0 - 9.0% of mass 176	3.5	5.62	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG134993-4	C4444.D	11/23/13	08:15
Laboratory Control S	WG134993-1	C4445.D	11/23/13	08:57
Method Blank Sample	WG134993-2	C4448.D	11/23/13	10:48
Methanol Blank	WG134993-5	C4449.D	11/23/13	11:22
RS-SB1-111413	SG9044-1DL	C4450.D	11/23/13	11:55
RS-SB2-111513	SG9044-2DL	C4451.D	11/23/13	12:29
RS-SB3-111513	SG9044-3DL	C4452.D	11/23/13	13:02
RS-SB4-111813	SG9044-4DL	C4453.D	11/23/13	13:35
RS-SB5-111813	SG9044-5DL	C4454.D	11/23/13	14:09
RS-SB6-111513	SG9044-6DL	C4455.D	11/23/13	14:42
RS-SB7-111413	SG9044-7DL	C4456.D	11/23/13	15:16
RS-SB8-111413	SG9044-8DL	C4457.D	11/23/13	15:49
FD-SO-111813	SG9044-9DL	C4458.D	11/23/13	16:23

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : DB246.D
Instrument ID : GCMS-D

SDG : WE40-1
Date Analyzed : 19-NOV-13
Time Analyzed : 08:50
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.6		
75	30.0 - 60.0% of mass 95	52.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.9	1.13	1
174	Greater than 50.0% of mass 95	81.0		
175	5.0 - 9.0% of mass 174	5.8	7.12	1
176	95.0 - 101.0% of mass 174	79.3	97.86	1
177	5.0 - 9.0% of mass 176	5.5	6.99	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG134694-6	D6750.D	11/19/13	10:08
Initial Calibration	WG134694-5	D6751.D	11/19/13	10:41
Initial Calibration	WG134694-4	D6752.D	11/19/13	11:13
Initial Calibration	WG134694-3	D6753.D	11/19/13	11:46
Initial Calibration	WG134694-2	D6754.D	11/19/13	12:19
Initial Calibration	WG134694-1	D6755.D	11/19/13	12:52
Independent Source	WG134694-12	D6756A.D	11/19/13	13:42

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : DB253.D
Instrument ID : GCMS-D

SDG : WE40-1
Date Analyzed : 27-NOV-13
Time Analyzed : 08:09
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.9		
75	30.0 - 60.0% of mass 95	52.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.3		
173	Less than 2.0% of mass 174	0.4	0.48	1
174	Greater than 50.0% of mass 95	81.6		
175	5.0 - 9.0% of mass 174	5.4	6.59	1
176	95.0 - 101.0% of mass 174	79.3	97.13	1
177	5.0 - 9.0% of mass 176	4.9	6.13	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG135258-4	D6916.D	11/27/13	09:16
Laboratory Control S	WG135258-1	D6918.D	11/27/13	10:44
Method Blank Sample	WG135258-2	D6921.D	11/27/13	12:47
TB-GW-110813	SG9180-10	D6922.D	11/27/13	13:19
RS-MW1-112013	SG9180-1	D6923.D	11/27/13	13:52
RS-MW2-112013	SG9180-2	D6924.D	11/27/13	14:24
RS-MW3-112013	SG9180-3	D6925.D	11/27/13	14:57
RS-MW4-112113	SG9180-4	D6926.D	11/27/13	15:30
RS-MW5-112113	SG9180-5	D6927.D	11/27/13	16:03
RS-MW6-112013	SG9180-6	D6928.D	11/27/13	16:36
RS-MW7-112013	SG9180-7	D6929.D	11/27/13	17:09
RS-MW8-112013	SG9180-8	D6930.D	11/27/13	17:42
FD-GW-112113	SG9180-9	D6931.D	11/27/13	18:15
IDW-GW-112113	SG9180-11	D6932.D	11/27/13	18:48

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-
Lab ID : WG134365-4
Lab File ID : C4230.D

SDG: WE40-1
Analytical Date: 11/13/13 11:04
Instrument ID: GCMS-C

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	839803		8.18		1543992		8.84		1449989		12.34	
	Upper Limit	1679606		8.68		3087984		9.34		2899978		12.84	
	Lower Limit	419901.5		7.68		771996		8.34		724994.5		11.84	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG134916-4	730513		8.18		1261910		8.84		1230733		12.34	
Laboratory Control S	WG134916-1	771021		8.18		1330784		8.84		1302536		12.34	
Method Blank Sample	WG134916-2	689584		8.18		1233132		8.84		1220551		12.34	
Methanol Blank	WG134916-5	729180		8.18		1332003		8.84		1296910		12.34	
TB-SO-110813	SG9044-10DL	747375		8.18		1342918		8.84		1338990		12.34	
Continuing Calibrati	WG134993-4	884913		8.18		1515094		8.84		1477294		12.34	
Laboratory Control S	WG134993-1	861671		8.18		1510166		8.84		1472327		12.33	
Method Blank Sample	WG134993-2	814906		8.18		1413621		8.84		1390350		12.34	
Methanol Blank	WG134993-5	851915		8.18		1491466		8.84		1482601		12.34	
RS-SB1-111413	SG9044-1DL	865586		8.17		1489725		8.84		1517297		12.34	
RS-SB2-111513	SG9044-2DL	838275		8.18		1508253		8.84		1509437		12.34	
RS-SB3-111513	SG9044-3DL	859470		8.18		1499937		8.84		1527111		12.34	
RS-SB4-111813	SG9044-4DL	874081		8.17		1539138		8.84		1528431		12.33	
RS-SB5-111813	SG9044-5DL	892368		8.17		1544526		8.84		1580345		12.34	
RS-SB6-111513	SG9044-6DL	911262		8.17		1590486		8.84		1632383		12.33	
RS-SB7-111413	SG9044-7DL	901833		8.17		1577375		8.84		1612251		12.33	
RS-SB8-111413	SG9044-8DL	937173		8.18		1584267		8.84		1621846		12.34	
FD-SO-111813	SG9044-9DL	929840		8.18		1609835		8.84		1622857		12.34	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-
Lab ID : WG134365-4
Lab File ID : C4230.D

SDG: WE40-1
Analytical Date: 11/13/13 11:04
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	796751		15.69	
	Upper Limit	1593502		16.19	
	Lower Limit	398375.5		15.19	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG134916-4	719153		15.69	
Laboratory Control S	WG134916-1	749009		15.69	
Method Blank Sample	WG134916-2	665280		15.69	
Methanol Blank	WG134916-5	705876		15.69	
TB-SO-110813	SG9044-10DL	721442		15.69	
Continuing Calibrati	WG134993-4	865137		15.69	
Laboratory Control S	WG134993-1	840191		15.69	
Method Blank Sample	WG134993-2	783152		15.69	
Methanol Blank	WG134993-5	819455		15.69	
RS-SB1-111413	SG9044-1DL	839709		15.68	
RS-SB2-111513	SG9044-2DL	839833		15.69	
RS-SB3-111513	SG9044-3DL	859980		15.69	
RS-SB4-111813	SG9044-4DL	854196		15.69	
RS-SB5-111813	SG9044-5DL	879971		15.69	
RS-SB6-111513	SG9044-6DL	903301		15.69	
RS-SB7-111413	SG9044-7DL	903100		15.69	
RS-SB8-111413	SG9044-8DL	925615		15.69	
FD-SO-111813	SG9044-9DL	917317		15.69	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-
Lab ID : WG134694-4
Lab File ID : D6752.D

SDG: WE40-1
Analytical Date: 11/19/13 11:13
Instrument ID: GCMS-D

		PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	789118		8.05		1188806		8.71		1078530		12.20	
	Upper Limit	1578236		8.55		2377612		9.21		2157060		12.70	
	Lower Limit	394559		7.55		594403		8.21		539265		11.70	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG135258-4	765055		8.05		1213568		8.72		1147659		12.20	
Laboratory Control S	WG135258-1	782118		8.05		1222853		8.71		1175967		12.20	
Method Blank Sample	WG135258-2	667183		8.05		1103862		8.71		1026047		12.20	
TB-GW-110813	SG9180-10	649087		8.05		1085675		8.71		1035911		12.20	
RS-MW1-112013	SG9180-1	692313		8.06		1175218		8.71		1096988		12.20	
RS-MW2-112013	SG9180-2	661918		8.05		1106903		8.72		1037018		12.21	
RS-MW3-112013	SG9180-3	672288		8.06		1107994		8.71		1052012		12.20	
RS-MW4-112113	SG9180-4	652319		8.05		1092293		8.71		1025210		12.20	
RS-MW5-112113	SG9180-5	618614		8.05		1026905		8.71		977573		12.21	
RS-MW6-112013	SG9180-6	639705		8.05		1076280		8.72		1012001		12.20	
RS-MW7-112013	SG9180-7	599881		8.06		1018478		8.71		958556		12.20	
RS-MW8-112013	SG9180-8	612726		8.05		1045793		8.71		992590		12.20	
FD-GW-112113	SG9180-9	606283		8.05		1041589		8.71		966977		12.21	
IDW-GW-112113	SG9180-11	599423		8.06		1029658		8.72		986748		12.21	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-
Lab ID : WG134694-4
Lab File ID : D6752.D

SDG: WE40-1
Analytical Date: 11/19/13 11:13
Instrument ID: GCMS-D

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	676282		15.52	
	Upper Limit	1352564		16.02	
	Lower Limit	338141		15.02	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG135258-4	734010		15.52	
Laboratory Control S	WG135258-1	742549		15.52	
Method Blank Sample	WG135258-2	613603		15.52	
TB-GW-110813	SG9180-10	615321		15.52	
RS-MW1-112013	SG9180-1	672200		15.52	
RS-MW2-112013	SG9180-2	617291		15.52	
RS-MW3-112013	SG9180-3	632451		15.52	
RS-MW4-112113	SG9180-4	620023		15.52	
RS-MW5-112113	SG9180-5	590821		15.52	
RS-MW6-112013	SG9180-6	614661		15.52	
RS-MW7-112013	SG9180-7	579496		15.52	
RS-MW8-112013	SG9180-8	594739		15.52	
FD-GW-112113	SG9180-9	586115		15.52	
IDW-GW-112113	SG9180-11	617177		15.52	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-1DL
Client ID: RS-SB1-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4450.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 86.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	130	ug/Kgdrywt	1	5	260	49.	130
Ethylbenzene	U	130	ug/Kgdrywt	1	5	260	34.	130
Methyl tert-butyl Ether	U	130	ug/Kgdrywt	1	5	260	58.	130
Toluene	U	130	ug/Kgdrywt	1	5	260	74.	130
Xylenes (Total)	U	400	ug/Kgdrywt	1	15	800	69.	400
m+p-Xylenes	U	260	ug/Kgdrywt	1	10	530	90.	260
o-Xylene	U	130	ug/Kgdrywt	1	5	260	69.	130
p-Bromofluorobenzene		88.8	%					
Toluene-D8		93.1	%					
1,2-Dichloroethane-D4		87.0	%					
Dibromofluoromethane		80.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4450.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

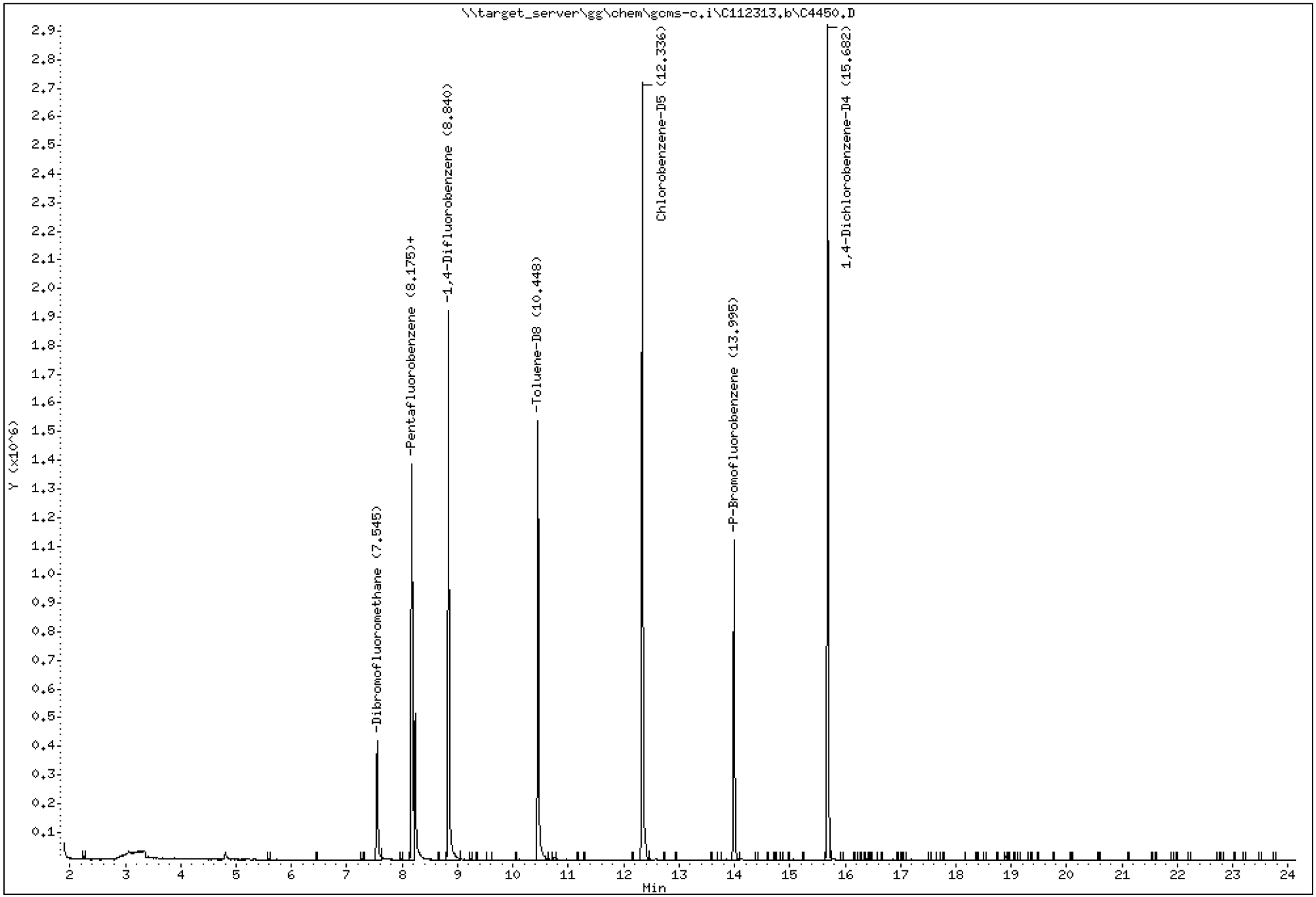
Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4450.D
Lab Smp Id: SG9044-1DL Client Smp ID: RS-SB1-111413
Inj Date : 23-NOV-2013 11:55
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-1DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	14.304	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.580	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.545	7.549	(0.923)	266605	40.3832	2130	
* 42 Pentafluorobenzene	168	8.174	8.178	(1.000)	865586	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.231	8.228	(1.007)	311103	43.4858	2290	
* 49 1,4-Difluorobenzene	114	8.839	8.836	(1.000)	1489725	50.0000		
$ 55 Toluene-D8	98	10.448	10.452	(1.182)	1012780	46.5322	2450	
* 66 Chlorobenzene-D5	117	12.336	12.340	(1.000)	1517297	50.0000		
$ 76 P-Bromofluorobenzene	95	13.994	13.992	(1.583)	451158	44.3827	2340	
* 91 1,4-Dichlorobenzene-D4	152	15.682	15.686	(1.000)	839709	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4450.D
Date : 23-NOV-2013 11:55
Client ID: RS-SB1-111413
Instrument: gcms-c.i
Sample Info: SG9044-1DL



Katahdin Analytical Services 0000057

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-2DL
Client ID: RS-SB2-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4451.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 84.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	140	ug/Kgdrywt	1	5	290	53.	140
Ethylbenzene	U	140	ug/Kgdrywt	1	5	290	38.	140
Methyl tert-butyl Ether	U	140	ug/Kgdrywt	1	5	290	64.	140
Toluene	U	140	ug/Kgdrywt	1	5	290	81.	140
Xylenes (Total)	U	440	ug/Kgdrywt	1	15	870	75.	440
m+p-Xylenes	U	290	ug/Kgdrywt	1	10	580	99.	290
o-Xylene	U	140	ug/Kgdrywt	1	5	290	75.	140
p-Bromofluorobenzene		88.9	%					
Toluene-D8		92.9	%					
1,2-Dichloroethane-D4		88.6	%					
Dibromofluoromethane		86.2	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4451.D
Report Date: 02-Dec-2013 12:10

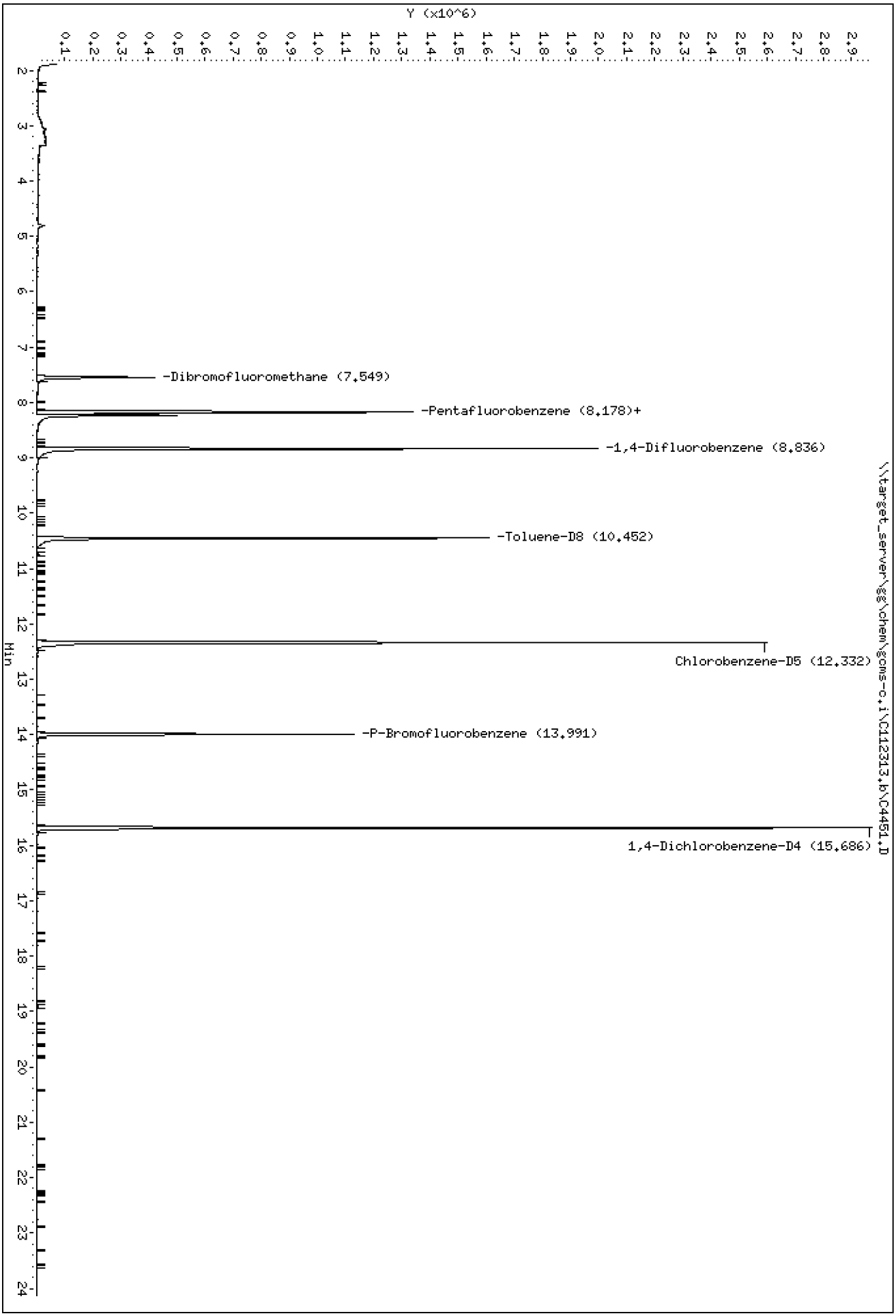
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4451.D
Lab Smp Id: SG9044-2DL Client Smp ID: RS-SB2-111513
Inj Date : 23-NOV-2013 12:29
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-2DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	16.198	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.160	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.549	7.549	(0.923)	275618	43.1085	2500	
* 42 Pentafluorobenzene	168	8.178	8.178	(1.000)	838275	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	307067	44.3201	2570	
* 49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1508253	50.0000		
$ 55 Toluene-D8	98	10.452	10.452	(1.183)	1023474	46.4459	2700	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1509437	50.0000		
$ 76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	457367	44.4408	2580	
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.686	(1.000)	839833	50.0000		



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Date : 23-NOV-2013 12:29
Client ID: RS-SB2-111513
Sample Info: SG9044-2DL

Instrument: gcms-c.i

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-3DL
Client ID: RS-SB3-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4452.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 90.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	130	ug/Kgdrywt	1	5	260	48.	130
Ethylbenzene	U	130	ug/Kgdrywt	1	5	260	34.	130
Methyl tert-butyl Ether	U	130	ug/Kgdrywt	1	5	260	57.	130
Toluene	U	130	ug/Kgdrywt	1	5	260	73.	130
Xylenes (Total)	U	390	ug/Kgdrywt	1	15	780	68.	390
m+p-Xylenes	U	260	ug/Kgdrywt	1	10	520	88.	260
o-Xylene	U	130	ug/Kgdrywt	1	5	260	68.	130
p-Bromofluorobenzene		88.8	%					
Toluene-D8		92.0	%					
1,2-Dichloroethane-D4		84.8	%					
Dibromofluoromethane		82.6	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4452.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4452.D
Lab Smp Id: SG9044-3DL Client Smp ID: RS-SB3-111513
Inj Date : 23-NOV-2013 13:02
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-3DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

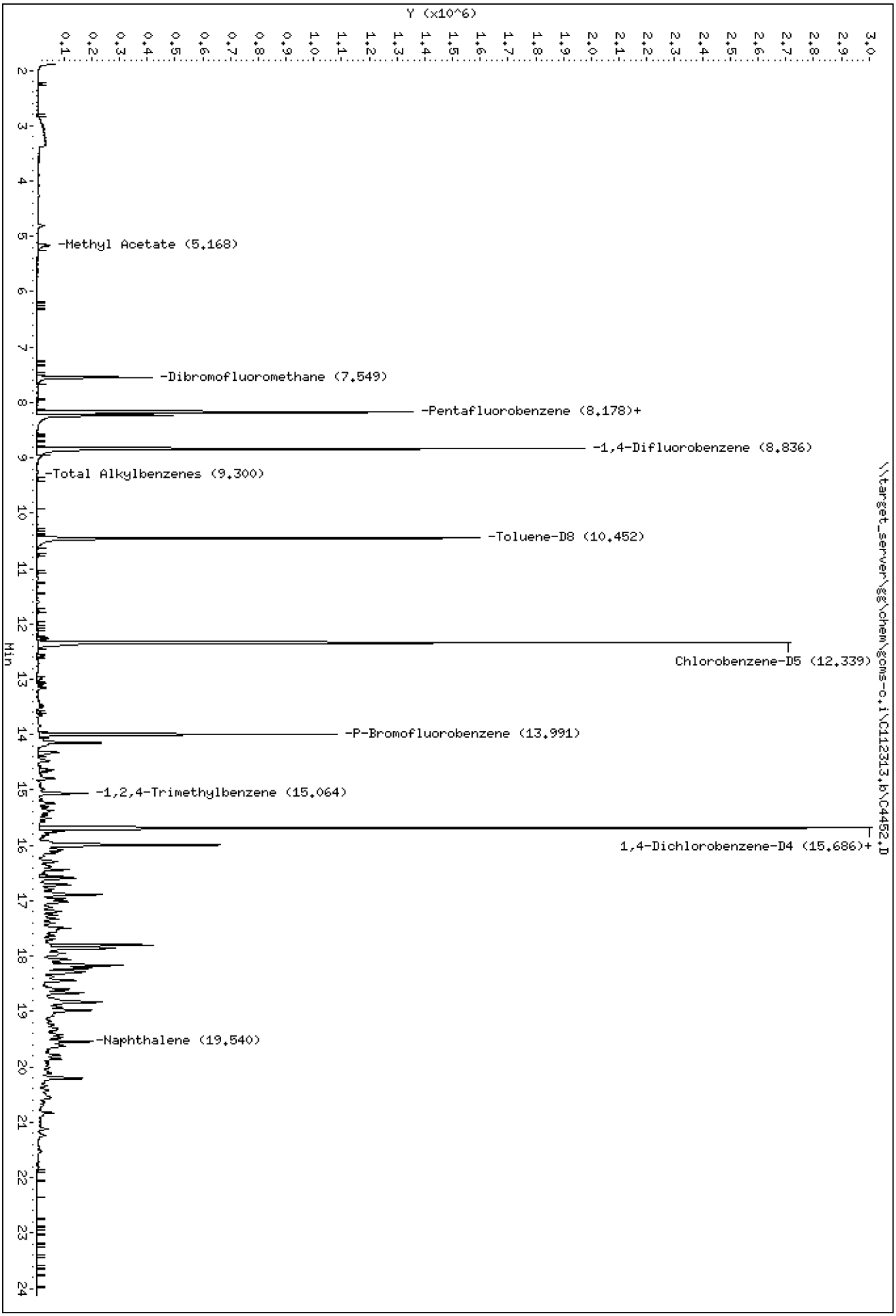
Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	10.030	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.010	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.548	7.549	(0.923)	270754	41.3035	2140	
* 42 Pentafluorobenzene	168	8.178	8.178	(1.000)	859470	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.235	8.228	(1.007)	301150	42.3942	2200	
* 49 1,4-Difluorobenzene	114	8.835	8.836	(1.000)	1499937	50.0000		
$ 55 Toluene-D8	98	10.451	10.452	(1.183)	1008412	46.0161	2380	
* 66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1527111	50.0000		
$ 76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	454498	44.4069	2300	
88 1,2,4-Trimethylbenzene	105	15.063	15.064	(0.960)	83734	2.73381	142(a)	
* 91 1,4-Dichlorobenzene-D4	152	15.685	15.686	(1.000)	859980	50.0000		
100 1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	54956	1.77466	91.9(a)	
101 Naphthalene	128	19.539	19.533	(1.246)	41353	2.15093	111(a)	
103 Methyl Acetate	43	5.174	5.133	(0.633)	90068	12.9208	669	
M 153 Total Alkylbenzenes	100				83734	2.73381	142(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Methyl Acetate (5.168)
-Dibromofluoromethane (7.549)
-Pentafluorobenzene (8.178)+
-1,4-Difluorobenzene (8.836)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.452)
Chlorobenzene-D5 (12.339)
-P-Bromofluorobenzene (13.991)
-1,2,4-Trimethylbenzene (15.064)
1,4-Dichlorobenzene-D4 (15.686)+
-Naphthalene (19.540)
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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4452.D
Date : 23-NOV-2013 13:02
Client ID: RS-SB3-111513
Sample Info: SG9044-3DL
Instrument: gcms-c.i

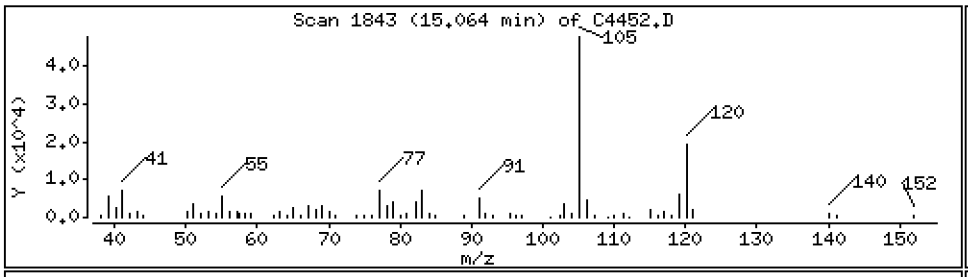
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4452.D

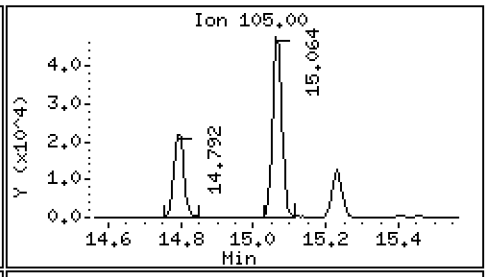
Date : 23-NOV-2013 13:02

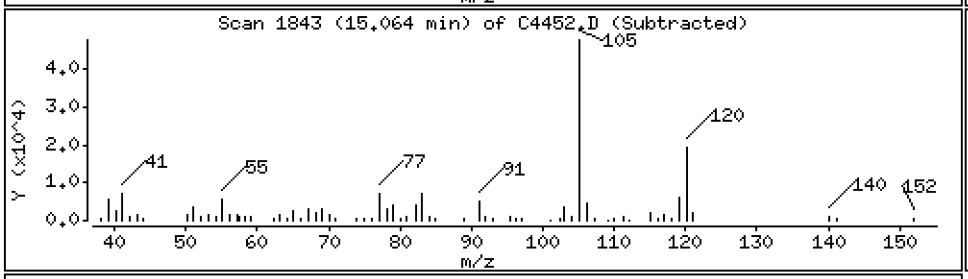
Client ID: RS-SB3-111513 Instrument: gcms-c.i

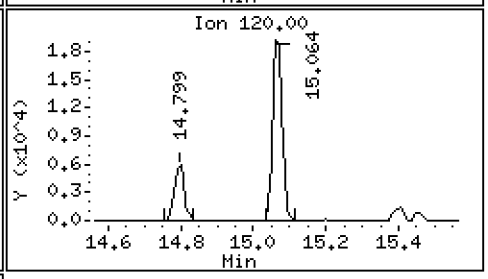
Sample Info: SG9044-3DL

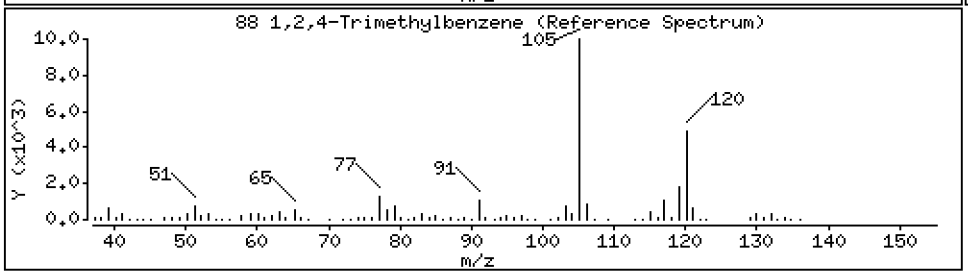
88 1,2,4-Trimethylbenzene Concentration: 142 ug/Kgdrywt



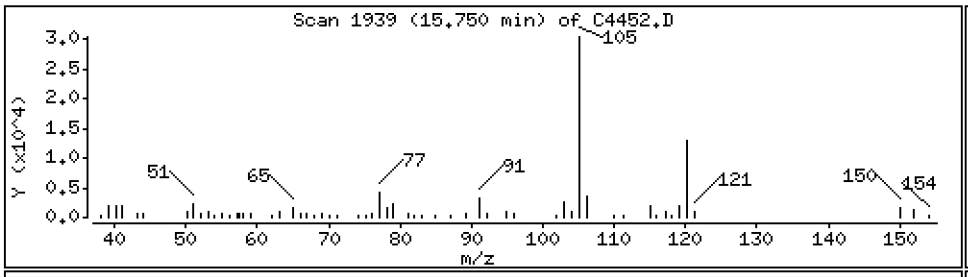


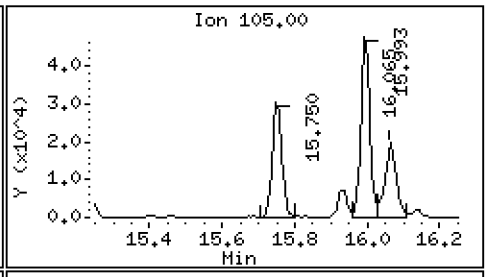


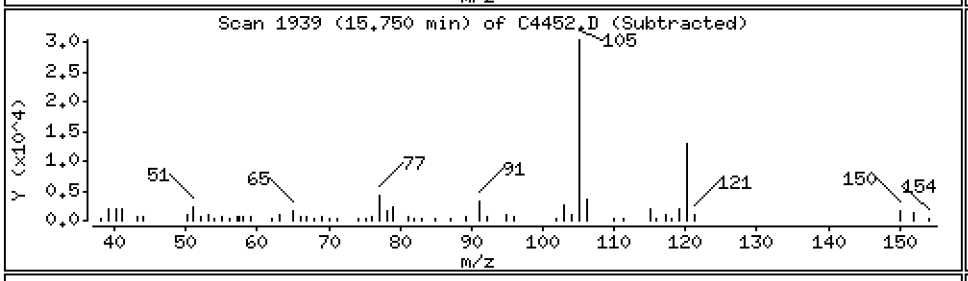


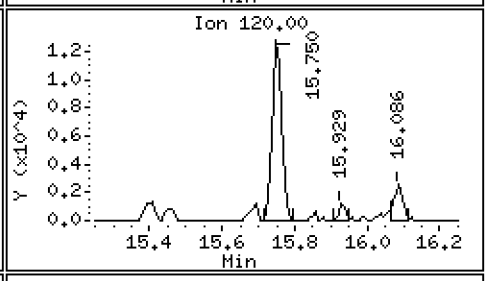


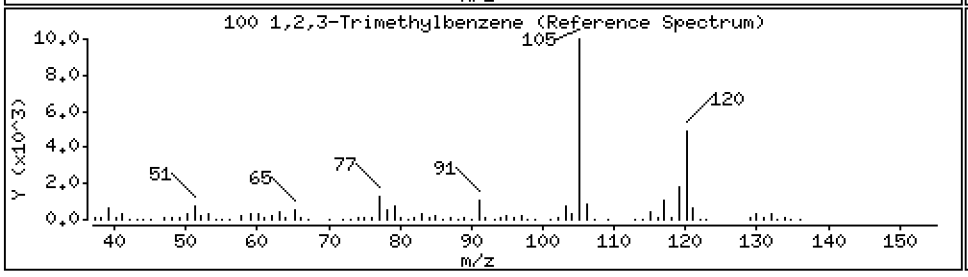
100 1,2,3-Trimethylbenzene Concentration: 91.9 ug/Kgdrywt

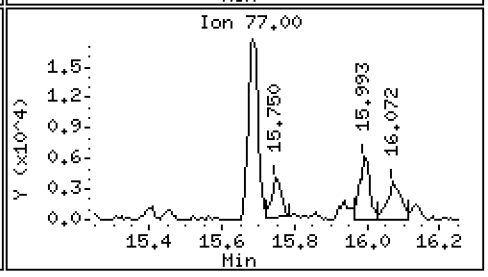












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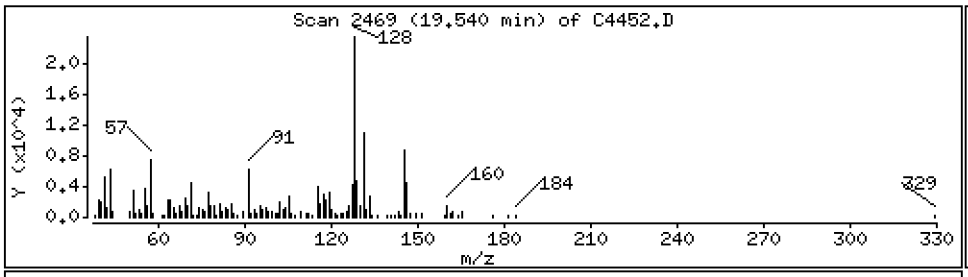
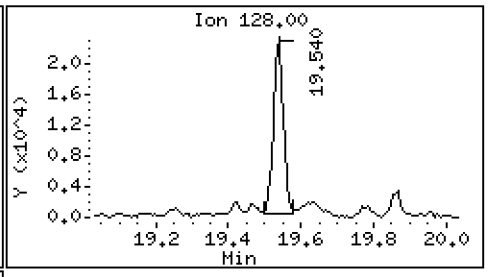
Date : 23-NOV-2013 13:02

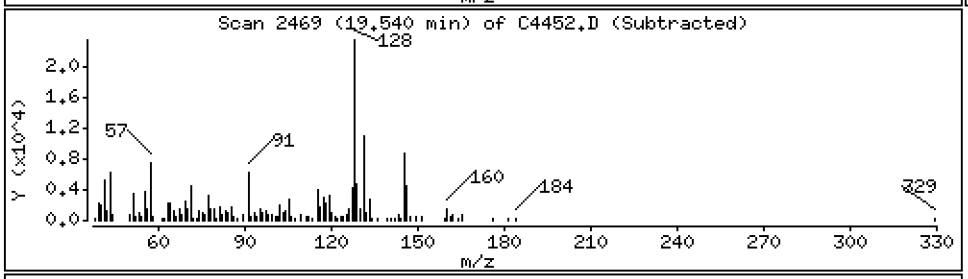
Client ID: RS-SB3-111513 Instrument: gcms-c.i

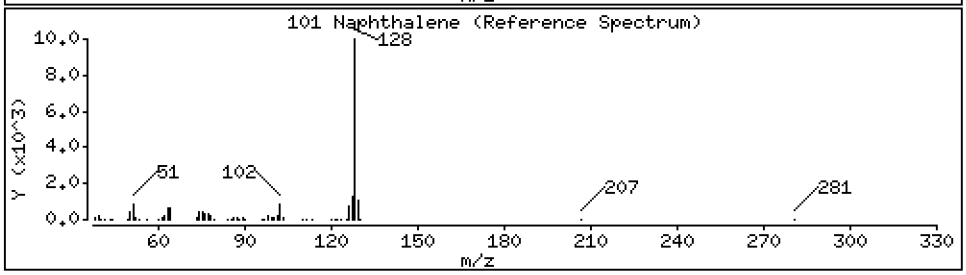
Sample Info: SG9044-3DL

101 Naphthalene Concentration: 111 ug/Kgdrywt

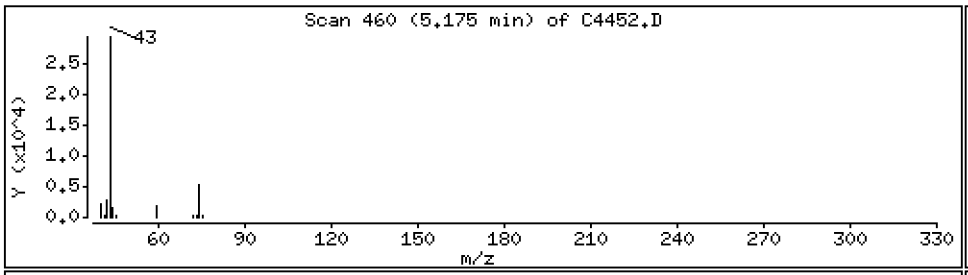


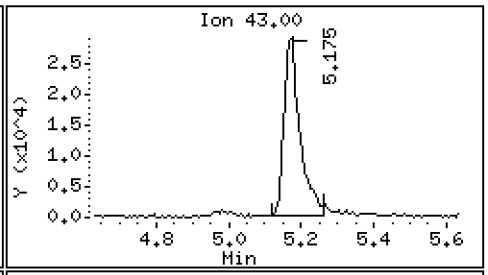


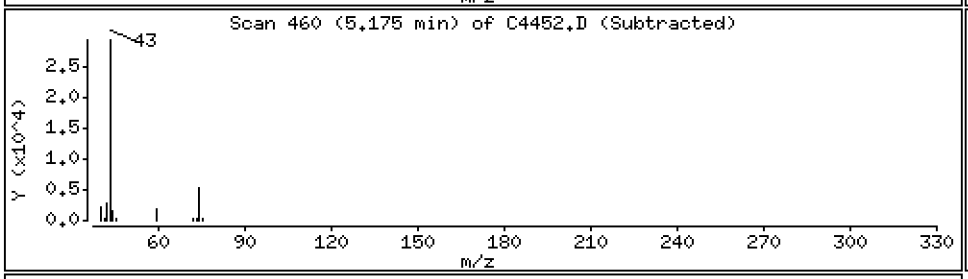


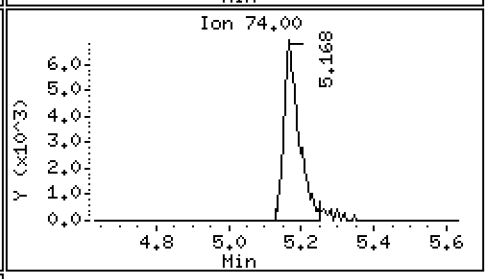


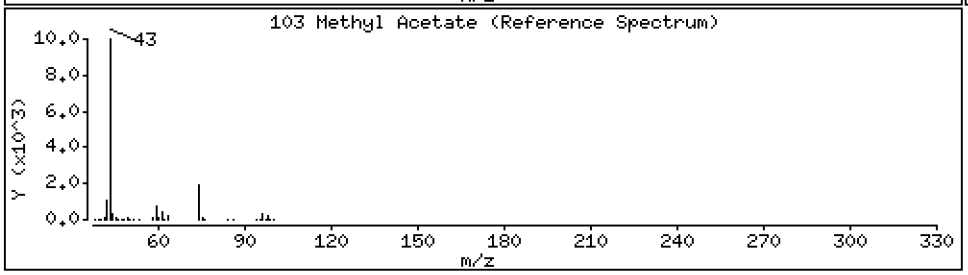
103 Methyl Acetate Concentration: 669 ug/Kgdrywt











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-4DL
Client ID: RS-SB4-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4453.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 86.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	130	ug/Kgdrywt	1	5	260	47.	130
Ethylbenzene	U	130	ug/Kgdrywt	1	5	260	33.	130
Methyl tert-butyl Ether	U	130	ug/Kgdrywt	1	5	260	56.	130
Toluene	U	130	ug/Kgdrywt	1	5	260	71.	130
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	760	66.	380
m+p-Xylenes	U	260	ug/Kgdrywt	1	10	510	87.	260
o-Xylene	U	130	ug/Kgdrywt	1	5	260	66.	130
p-Bromofluorobenzene		86.8	%					
Toluene-D8		92.2	%					
1,2-Dichloroethane-D4		84.9	%					
Dibromofluoromethane		81.9	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4453.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4453.D
Lab Smp Id: SG9044-4DL Client Smp ID: RS-SB4-111813
Inj Date : 23-NOV-2013 13:35
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-4DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	14.167	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.750	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.551	7.549	(0.924)	273045	40.9567	2100	
* 42 Pentafluorobenzene	168	8.173	8.178	(1.000)	874081	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.007)	306571	42.4359	2180	
* 49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1539138	50.0000		
$ 55 Toluene-D8	98	10.454	10.452	(1.183)	1036986	46.1148	2370	
* 66 Chlorobenzene-D5	117	12.334	12.340	(1.000)	1528431	50.0000		
$ 76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	456109	43.4293	2230	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	854196	50.0000		

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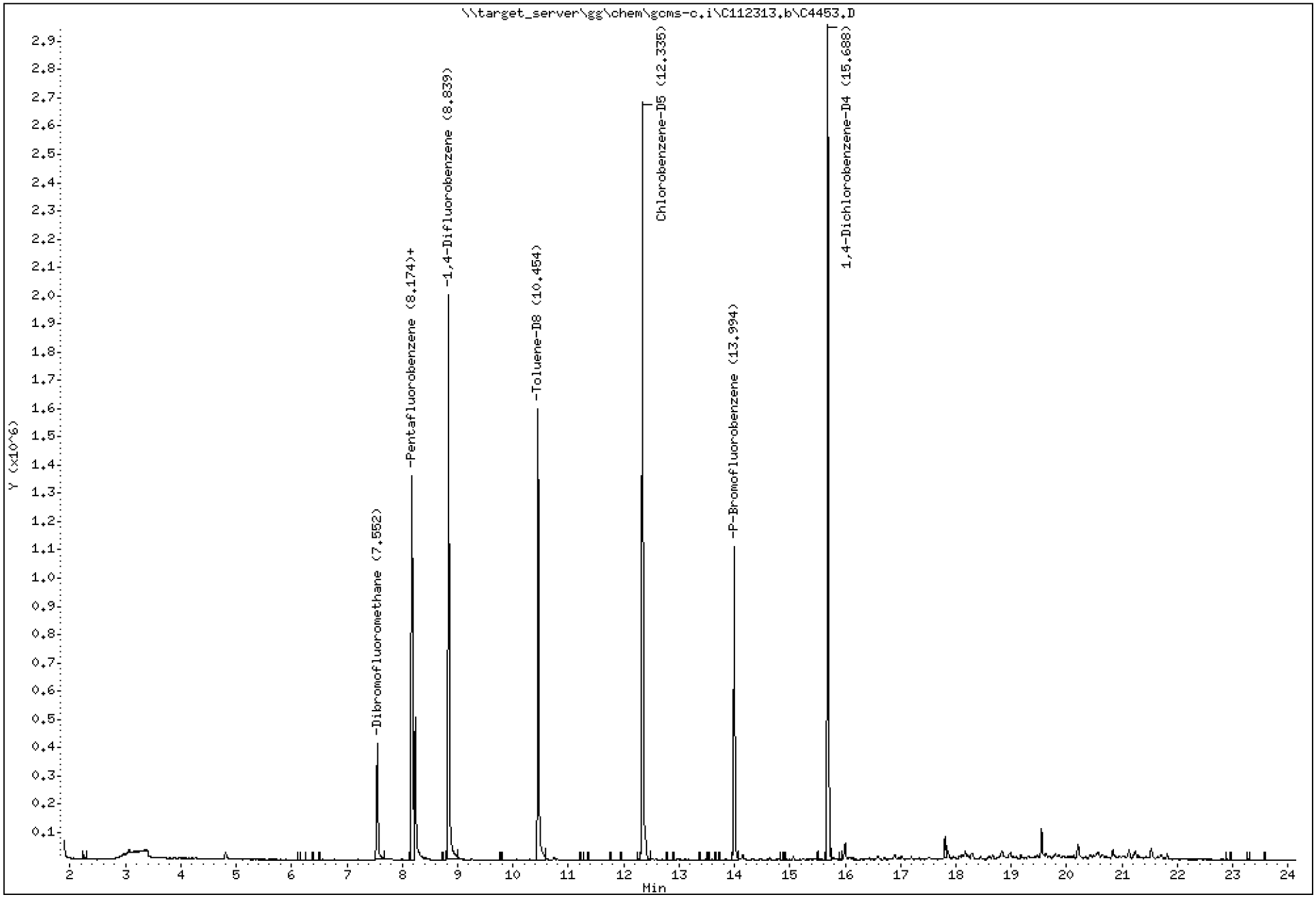
Client ID: RS-SB4-111813
Instrument: gcms-c.i
Sample Info: SG9044-4DL



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-5DL
Client ID: RS-SB5-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4454.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 86.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	250	32.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	55.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	70.	120
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	750	65.	380
m+p-Xylenes	U	250	ug/Kgdrywt	1	10	500	85.	250
o-Xylene	U	120	ug/Kgdrywt	1	5	250	65.	120
p-Bromofluorobenzene		101.	%					
Toluene-D8		92.9	%					
1,2-Dichloroethane-D4		84.8	%					
Dibromofluoromethane		84.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4454.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4454.D
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Inj Date : 23-NOV-2013 14:09
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-5DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	13.940	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	7.000	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37	Dibromofluoromethane	113	7.545	7.549	(0.923)	287874	42.2961	2100	
* 42	Pentafluorobenzene	168	8.174	8.178	(1.000)	892368	50.0000		
$ 45	1,2-Dichloroethane-D4	65	8.231	8.228	(1.007)	312606	42.3845	2100	
* 49	1,4-Difluorobenzene	114	8.839	8.836	(1.000)	1544526	50.0000		
$ 55	Toluene-D8	98	10.455	10.452	(1.183)	1047979	46.4411	2300	
* 66	Chlorobenzene-D5	117	12.335	12.340	(1.000)	1580345	50.0000		
$ 76	P-Bromofluorobenzene	95	13.994	13.992	(1.583)	533195	50.5921	2510	
80	N-Propylbenzene	91	14.187	14.185	(0.904)	55253	1.26122	62.6(a)	
82	1,3,5-Trimethylbenzene	105	14.480	14.478	(0.923)	92642	2.92176	145(a)	
88	1,2,4-Trimethylbenzene	105	15.067	15.064	(0.960)	578775	18.4670	916	
89	P-Isopropyltoluene	119	15.460	15.457	(0.985)	400570	12.9774	644	
* 91	1,4-Dichlorobenzene-D4	152	15.689	15.686	(1.000)	879971	50.0000		
93	N-Butylbenzene	91	16.139	16.137	(1.029)	381229	10.5633	524	
94	sec-Butylbenzene	105	15.231	15.229	(0.971)	232347	6.01430	298	
100	1,2,3-Trimethylbenzene	105	15.753	15.750	(1.004)	342060	10.7950	535	
101	Naphthalene	128	19.543	19.533	(1.246)	263163	13.3771	663	
M 153	Total Alkylbenzenes	100				1740816	52.2050	2590	

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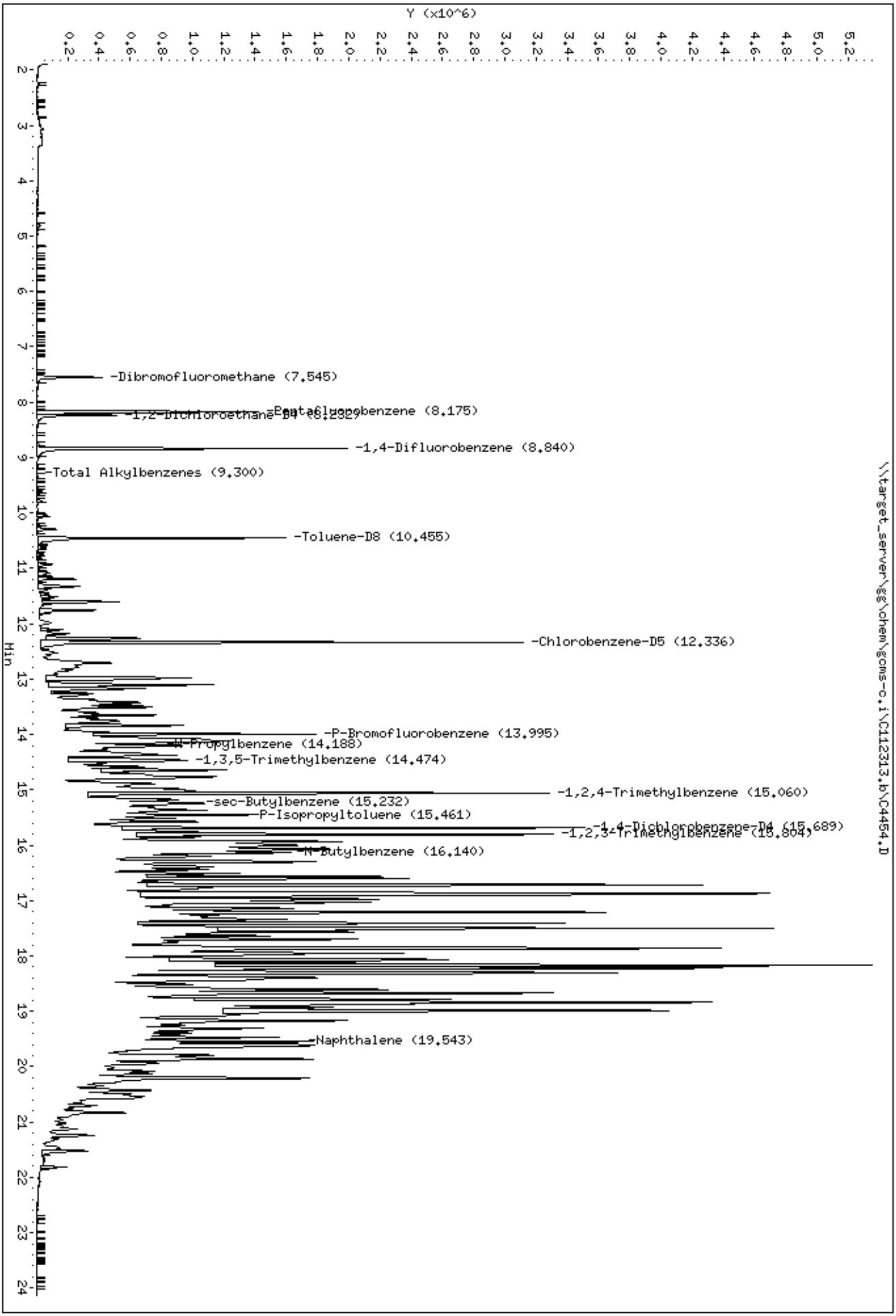
Report Date: 02-Dec-2013 12:10

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Client ID: RS-SB5-111813
Sample Info: SG9044-SDL

Instrument: gcms-c.i

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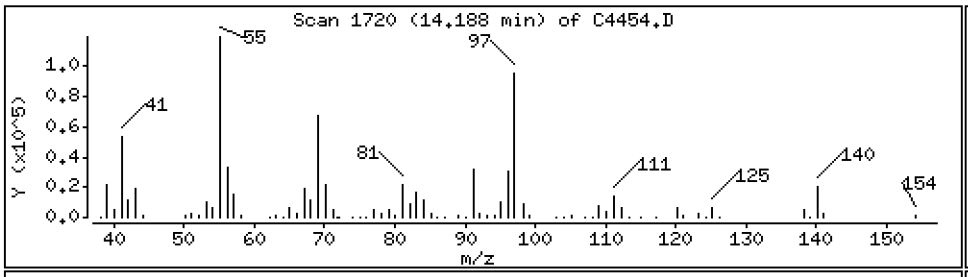
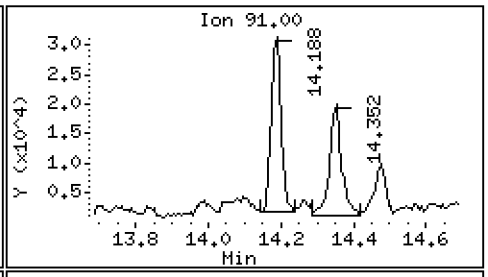
Date : 23-NOV-2013 14:09

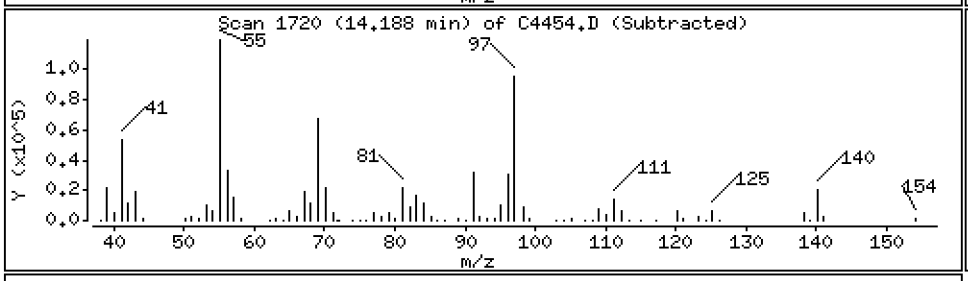
Client ID: RS-SB5-111813 Instrument: gcms-c.i

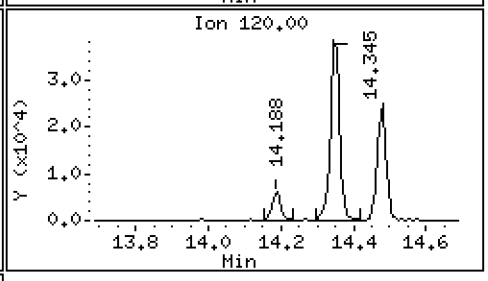
Sample Info: SG9044-5DL

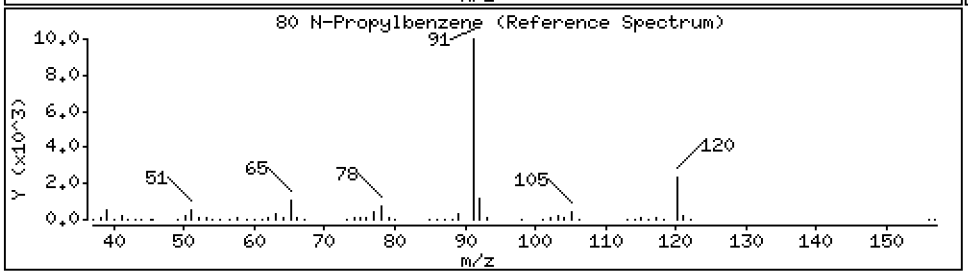
80 N-Propylbenzene Concentration: 62.6 ug/Kgdrywt



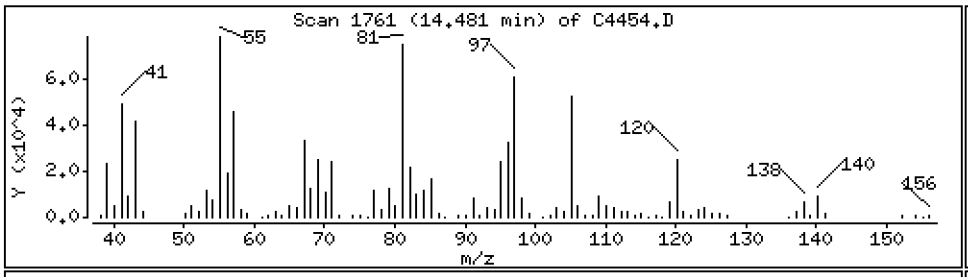


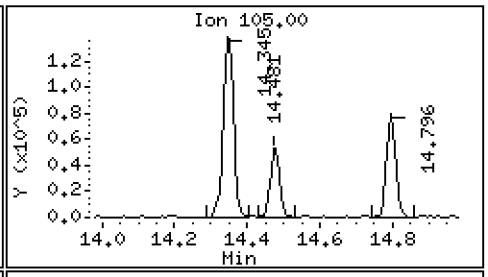


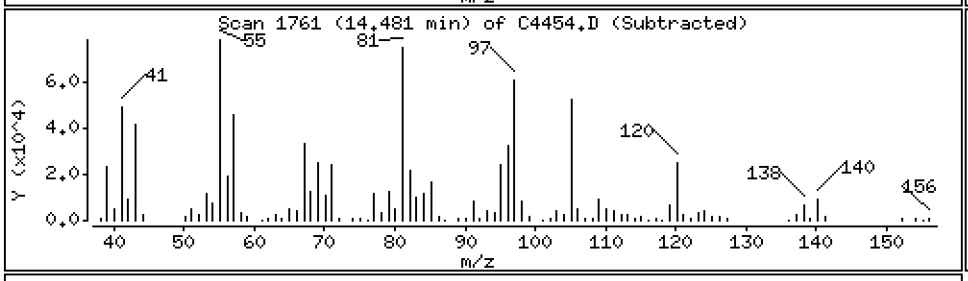


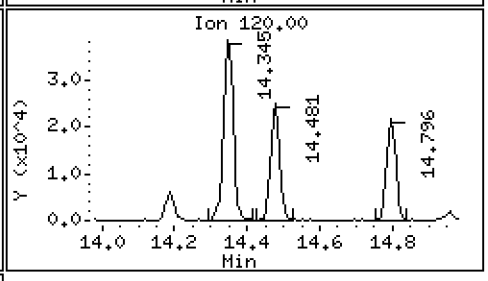


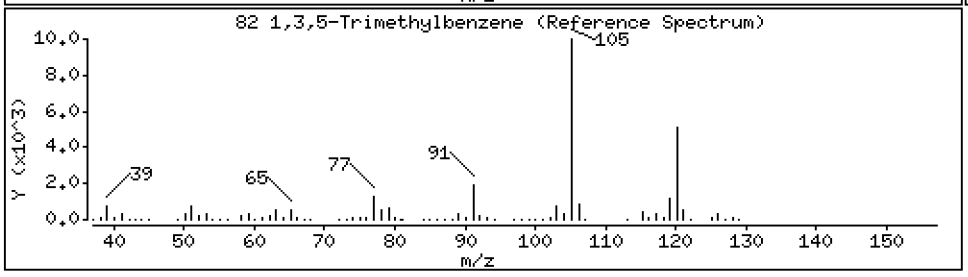
82 1,3,5-Trimethylbenzene Concentration: 145 ug/Kgdrywt











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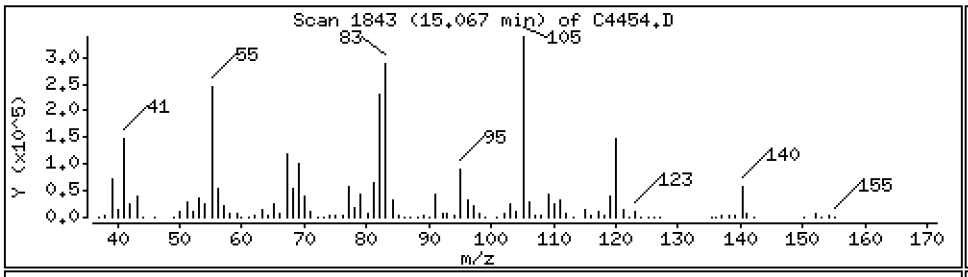
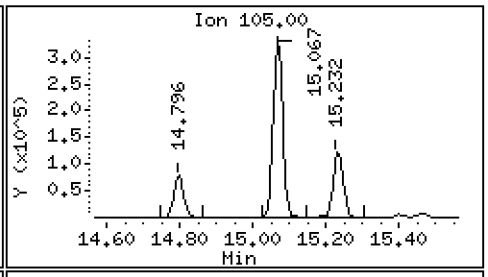
Date : 23-NOV-2013 14:09

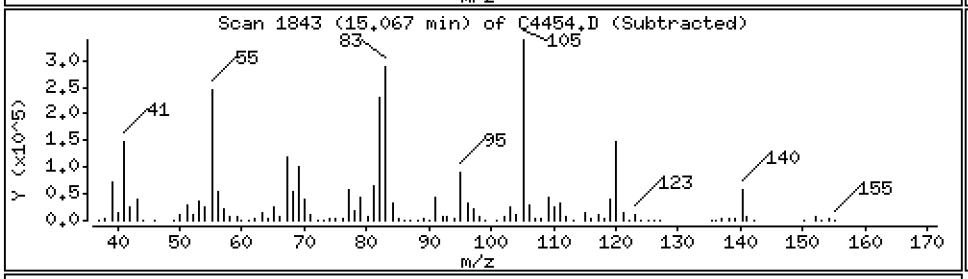
Client ID: RS-SB5-111813 Instrument: gcms-c.i

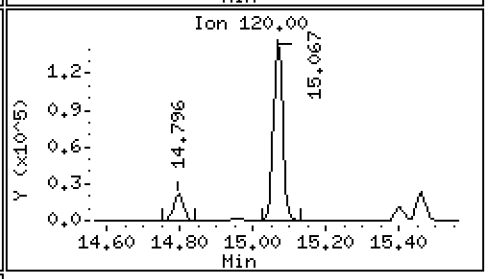
Sample Info: SG9044-5DL

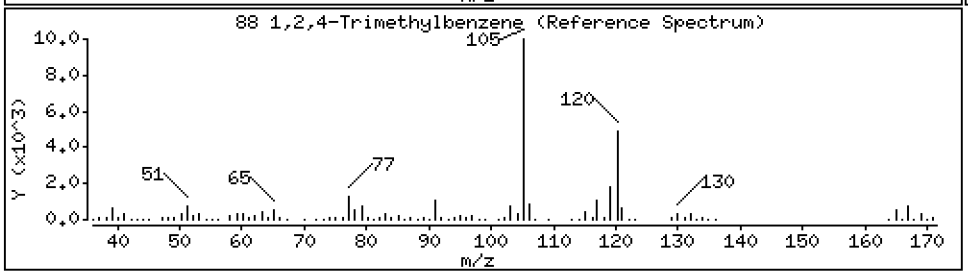
88 1,2,4-Trimethylbenzene Concentration: 916 ug/Kgdrywt



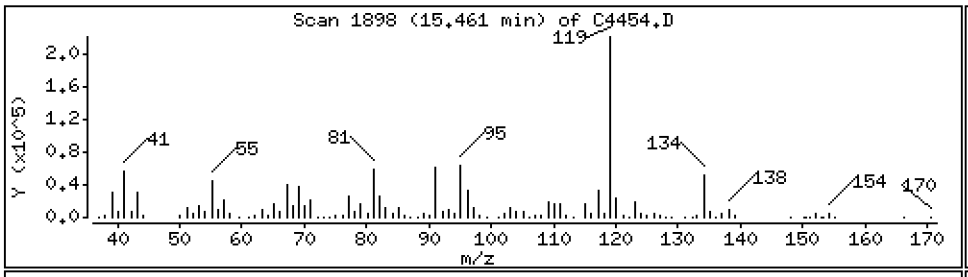


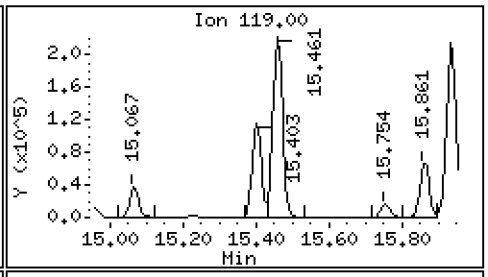


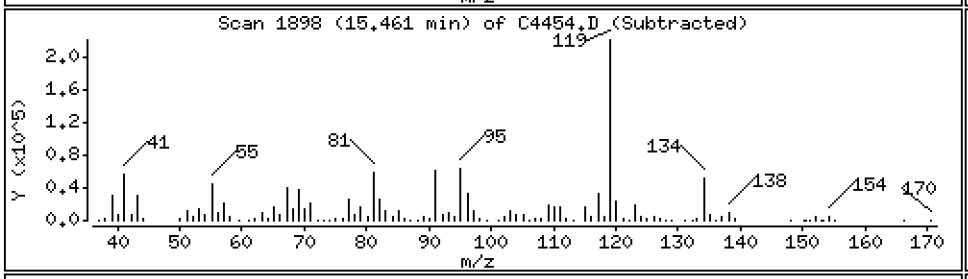


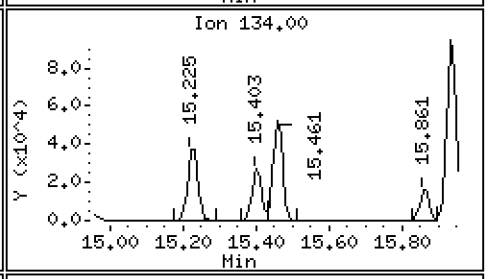


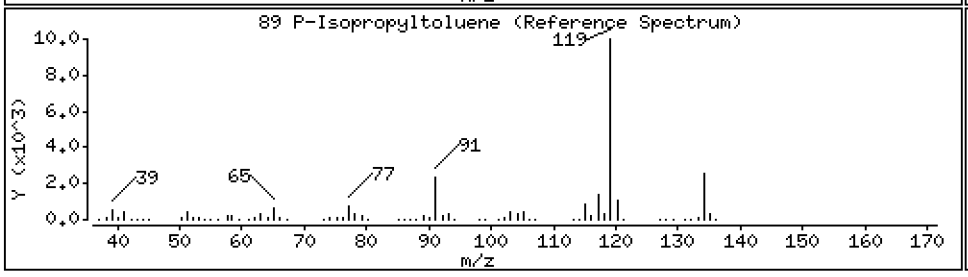
89 P-Isopropyltoluene Concentration: 644 ug/Kgdrywt

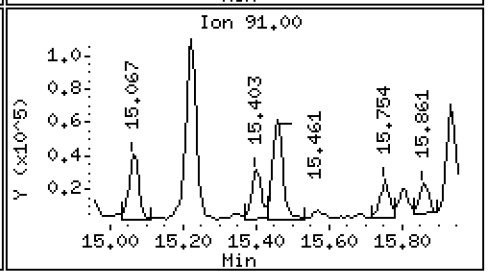












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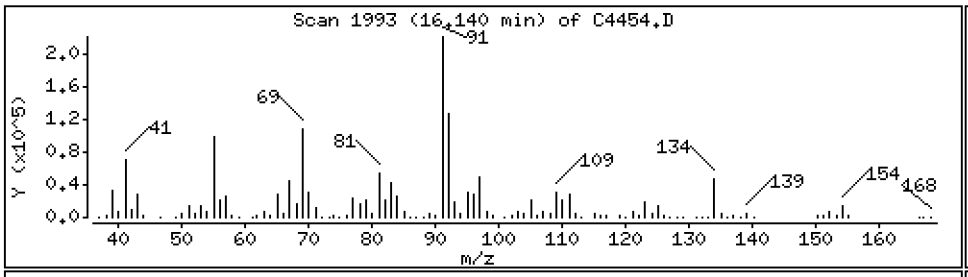
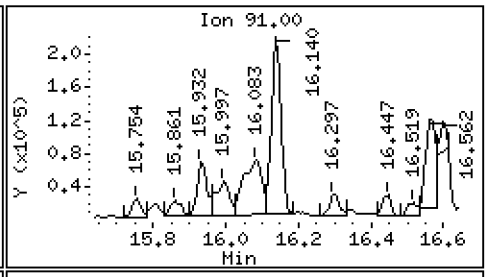
Date : 23-NOV-2013 14:09

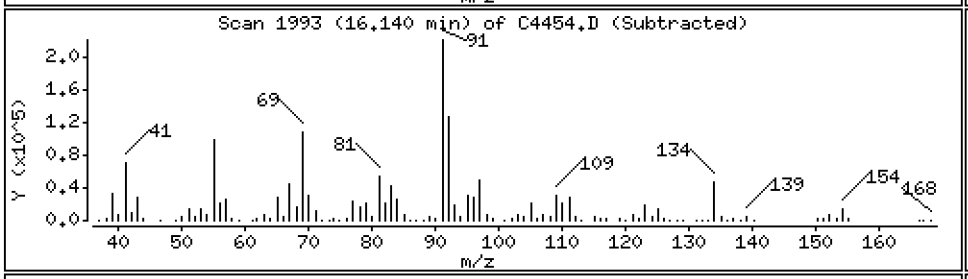
Client ID: RS-SB5-111813 Instrument: gcms-c.i

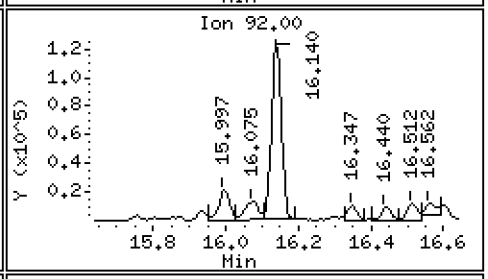
Sample Info: SG9044-5DL

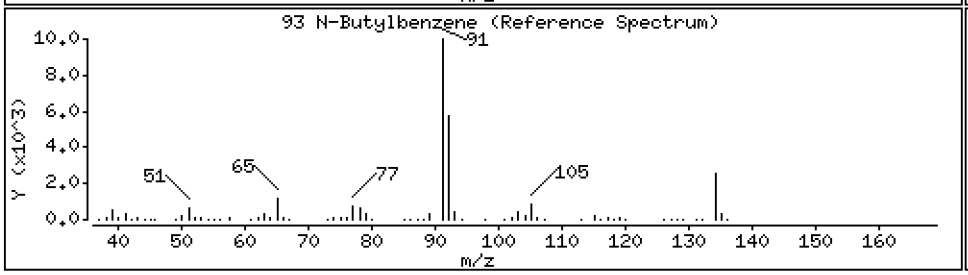
93 N-Butylbenzene Concentration: 524 ug/Kgdrywt

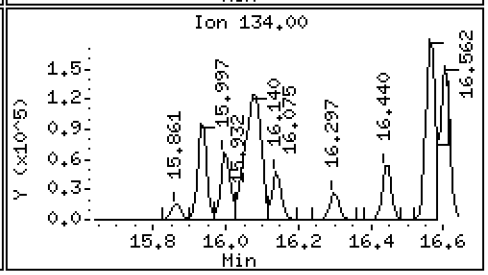




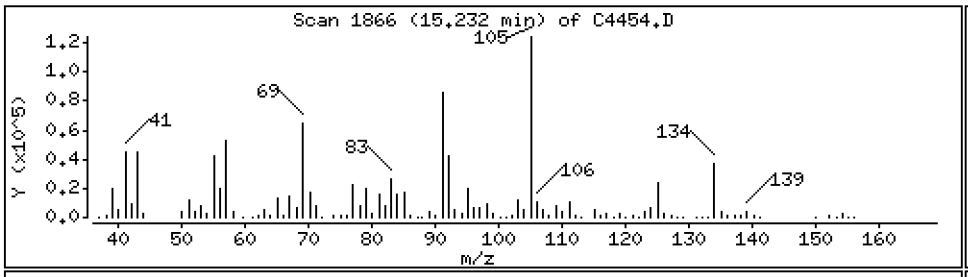


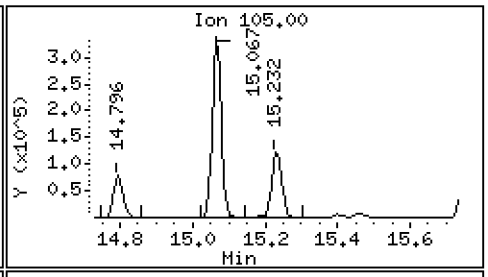


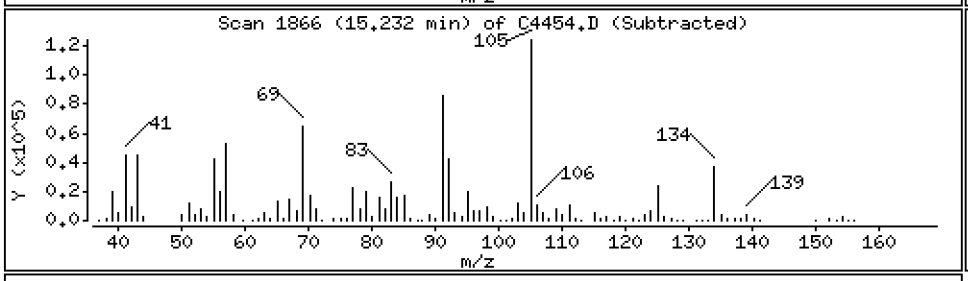


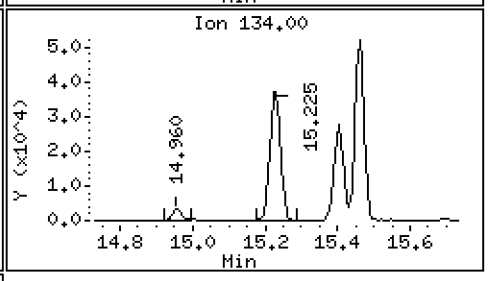


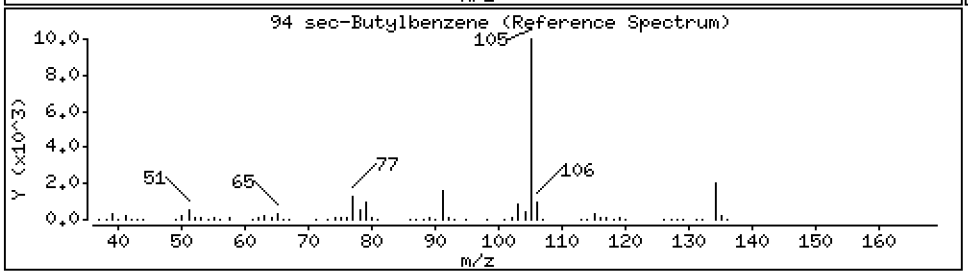
94 sec-Butylbenzene Concentration: 298 ug/Kgdrywt











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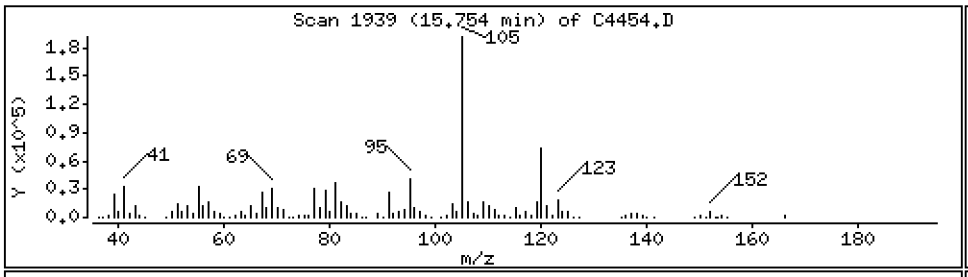
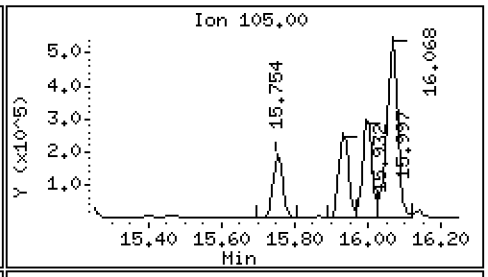
Date : 23-NOV-2013 14:09

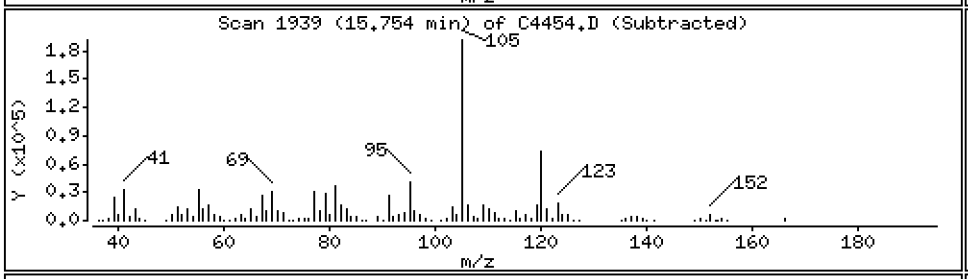
Client ID: RS-SB5-111813 Instrument: gcms-c.i

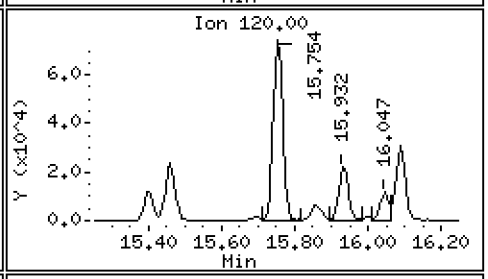
Sample Info: SG9044-5DL

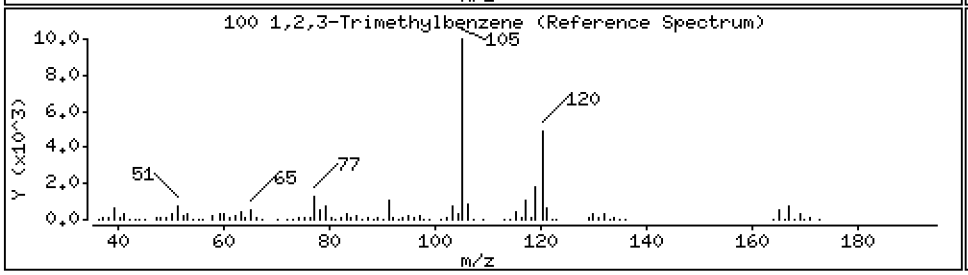
100 1,2,3-Trimethylbenzene Concentration: 535 ug/Kgdrywt

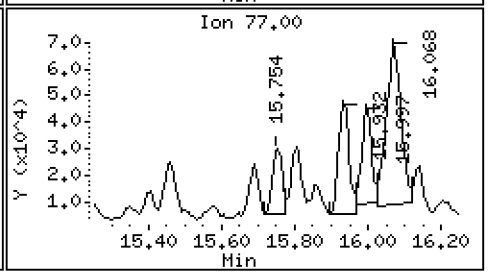




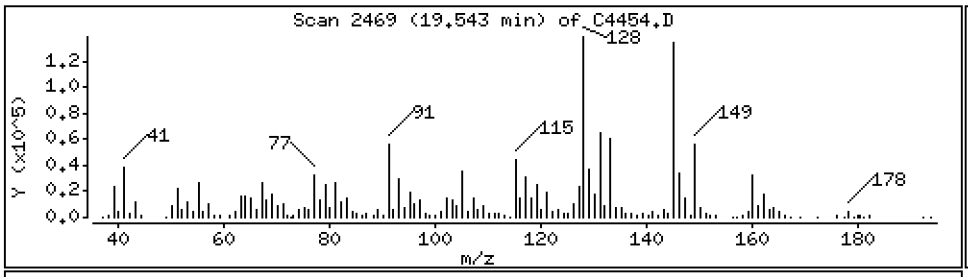


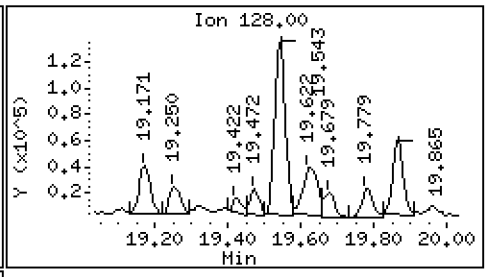


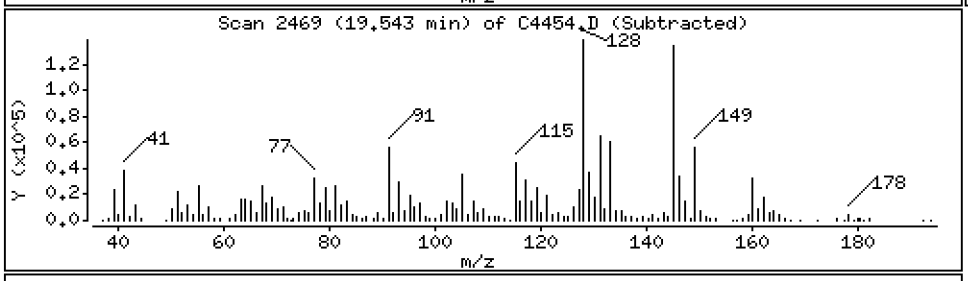


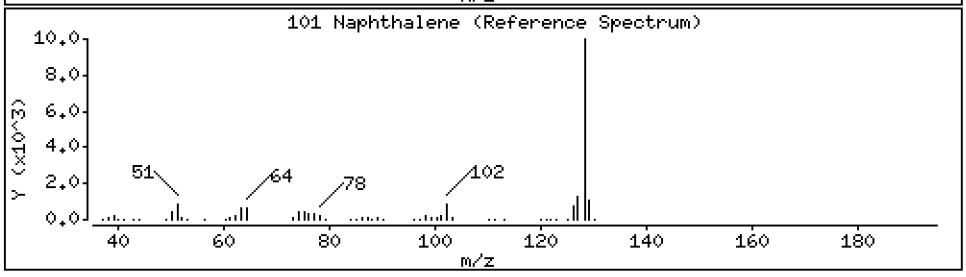


101 Naphthalene Concentration: 663 ug/Kgdrywt









Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-6DL
Client ID: RS-SB6-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4455.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 90.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	140	ug/Kgdrywt	1	5	270	50.	140
Ethylbenzene	U	140	ug/Kgdrywt	1	5	270	35.	140
Methyl tert-butyl Ether	U	140	ug/Kgdrywt	1	5	270	59.	140
Toluene	U	140	ug/Kgdrywt	1	5	270	76.	140
Xylenes (Total)	U	400	ug/Kgdrywt	1	15	810	70.	400
m+p-Xylenes	U	270	ug/Kgdrywt	1	10	540	92.	270
o-Xylene	U	140	ug/Kgdrywt	1	5	270	70.	140
p-Bromofluorobenzene		89.6	%					
Toluene-D8		90.8	%					
1,2-Dichloroethane-D4		82.8	%					
Dibromofluoromethane		82.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4455.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4455.D
Lab Smp Id: SG9044-6DL Client Smp ID: RS-SB6-111513
Inj Date : 23-NOV-2013 14:42
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-6DL
Misc Info : WG134993,WG134365-4
Comment   : SW846 5035,MED
Method   : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

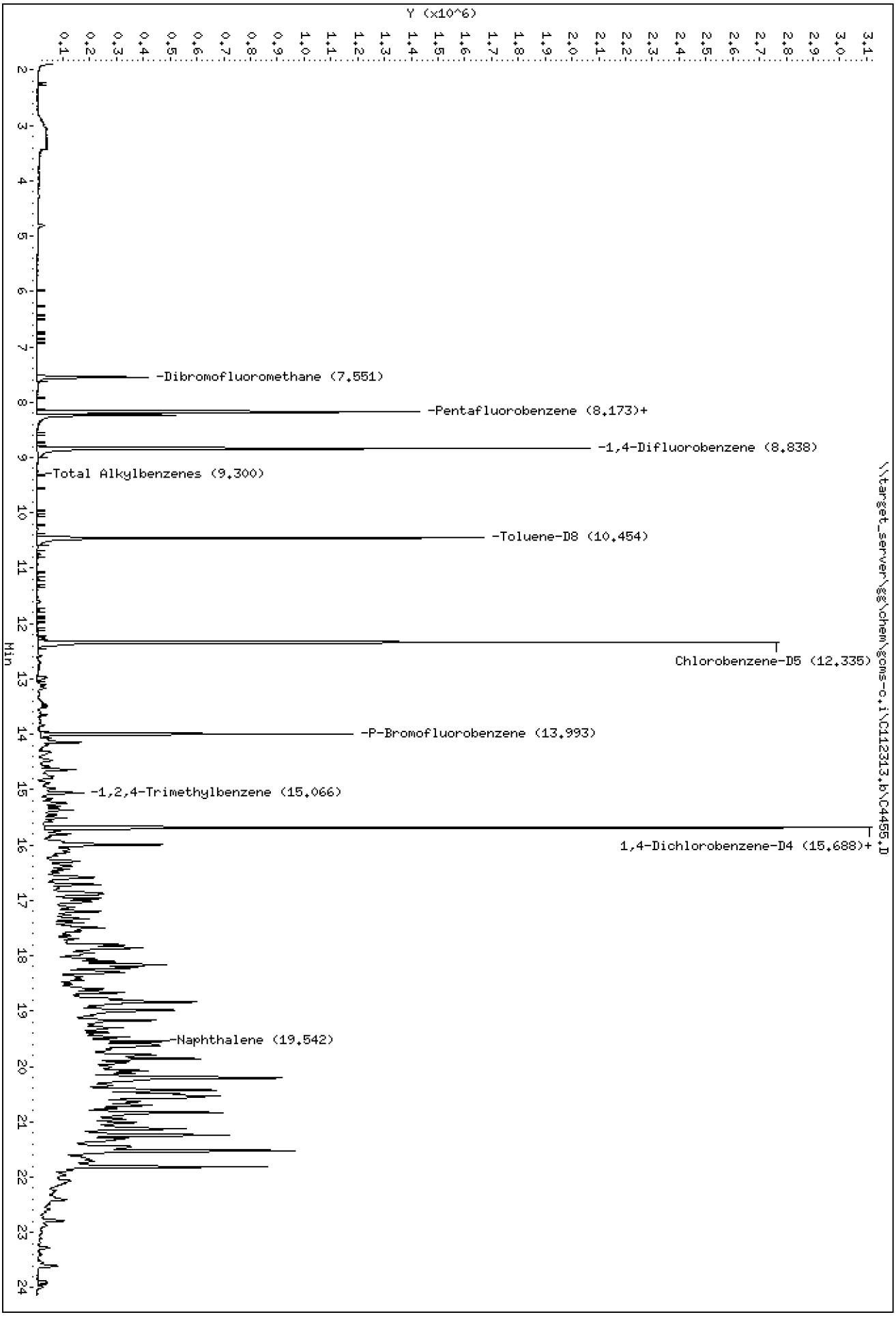
Concentration Formula:
   Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	10.435	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	5.820	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.551	7.549	(0.924)	287591	41.3785	2220	
* 42 Pentafluorobenzene	168	8.173	8.178	(1.000)	911262	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.007)	311675	41.3821	2220	
* 49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1590486	50.0000		
$ 55 Toluene-D8	98	10.454	10.452	(1.183)	1054862	45.3953	2440	
* 66 Chlorobenzene-D5	117	12.334	12.340	(1.000)	1632383	50.0000		
$ 76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	486237	44.8033	2410	
88 1,2,4-Trimethylbenzene	105	15.065	15.064	(0.960)	51744	1.60836	86.5(a)	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.686	(1.000)	903301	50.0000		
100 1,2,3-Trimethylbenzene	105	15.752	15.750	(1.004)	34244	1.05279	56.6(a)	
101 Naphthalene	128	19.541	19.533	(1.246)	65316	3.23440	174(a)	
M 153 Total Alkylbenzenes	100				51744	1.60836	86.5(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Dibromofluoromethane (7.551)
-Pentafluorobenzene (8.173)+
-1,4-Difluorobenzene (8.838)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.454)
Chlorobenzene-D5 (12.335)
-P-Bromofluorobenzene (13.993)
-1,2,4-Trimethylbenzene (15.066)
1,4-Dichlorobenzene-D4 (15.688)+
-Naphthalene (19.542)
Data File: \\target_server\gc\chem\gcms-c.i\C112313.b\C4455.D
Date : 23-NOV-2013 14:42
Client ID: RS-SB6-111513
Sample Info: SG9044-6DL
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Instrument: gcms-c.i

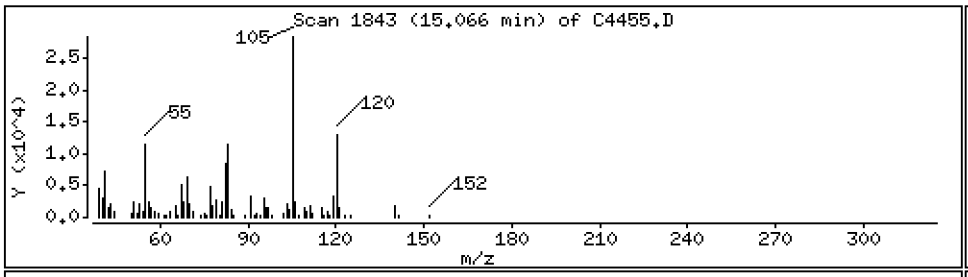
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4455.D

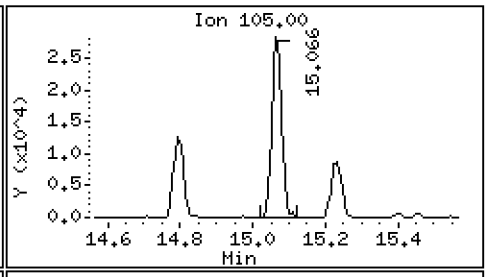
Date : 23-NOV-2013 14:42

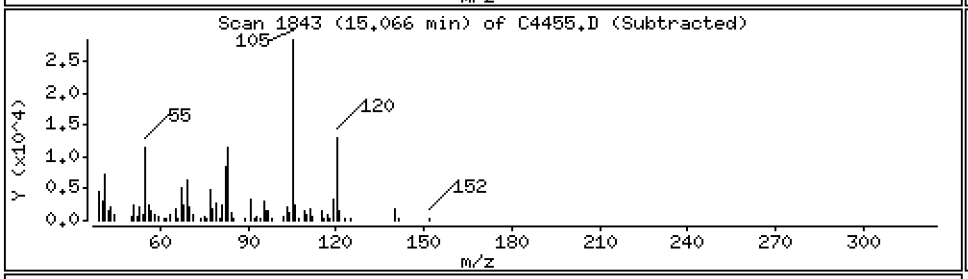
Client ID: RS-SB6-111513 Instrument: gcms-c.i

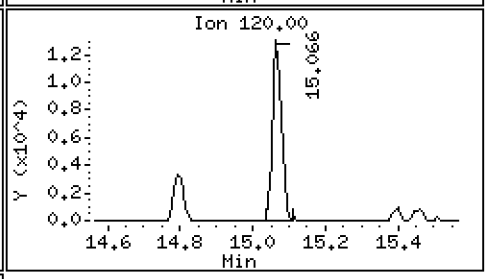
Sample Info: SG9044-6DL

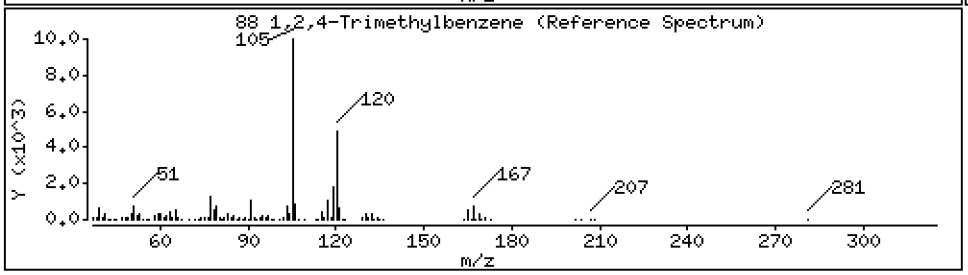
88 1,2,4-Trimethylbenzene Concentration: 86.5 ug/Kgdrywt



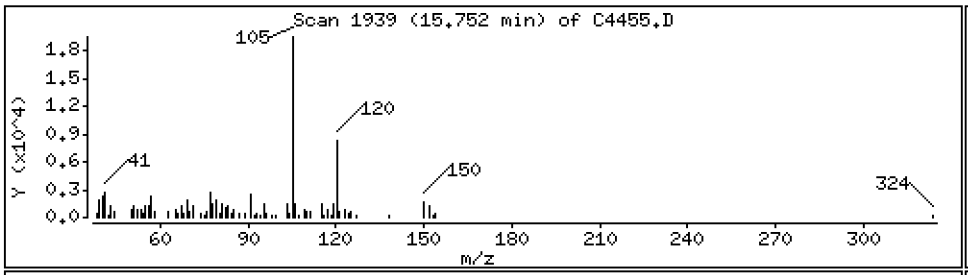


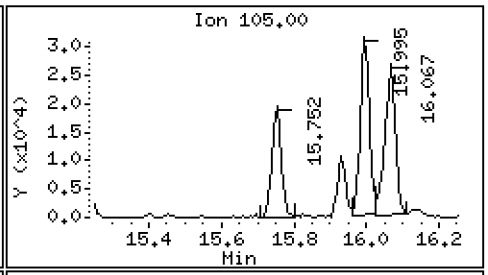


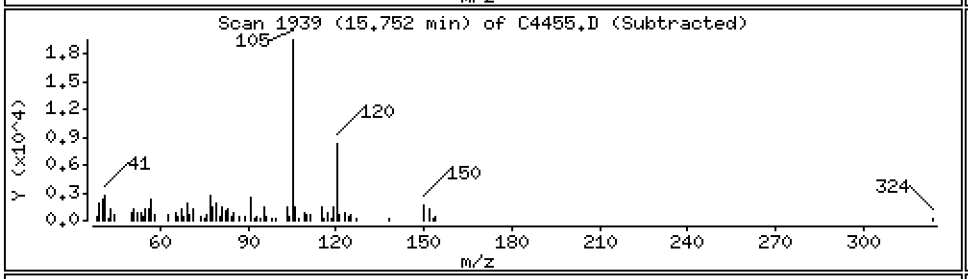


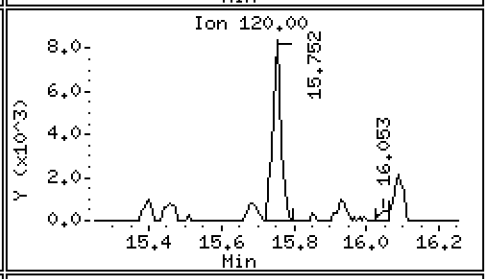


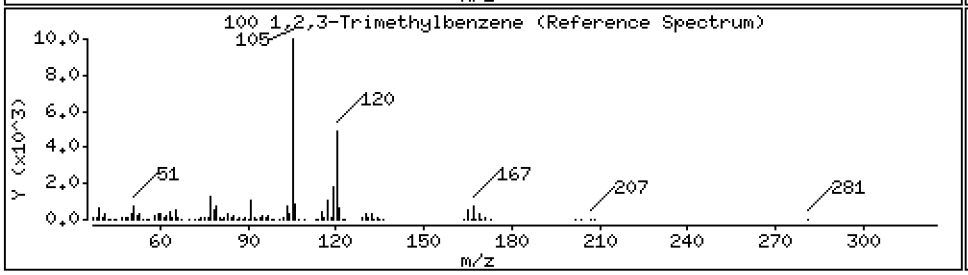
100 1,2,3-Trimethylbenzene Concentration: 56.6 ug/Kgdrywt

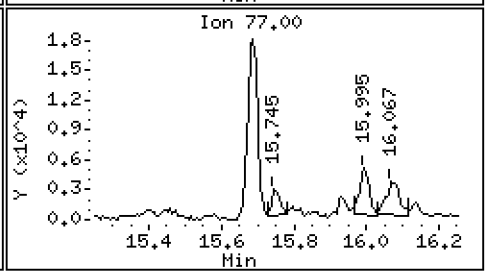












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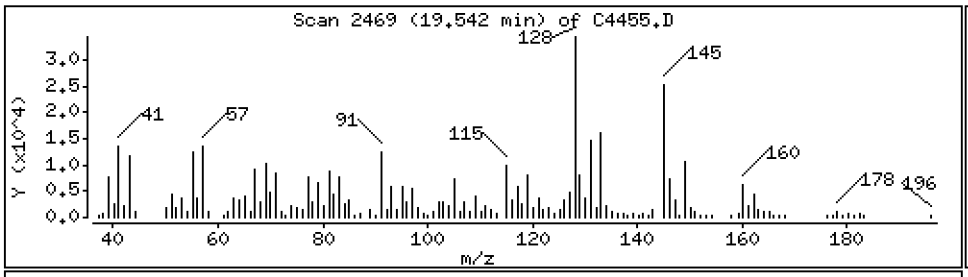
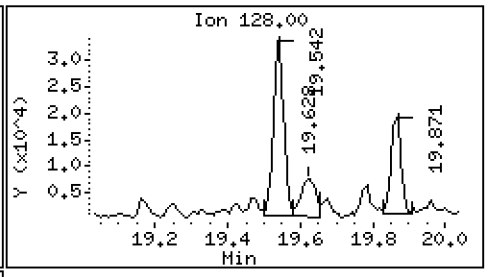
Date : 23-NOV-2013 14:42

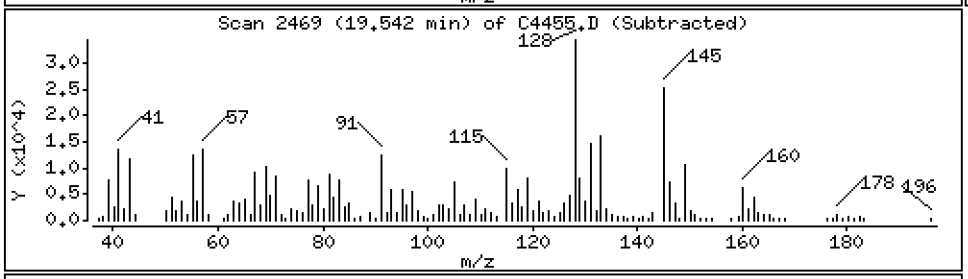
Client ID: RS-SB6-111513 Instrument: gcms-c.i

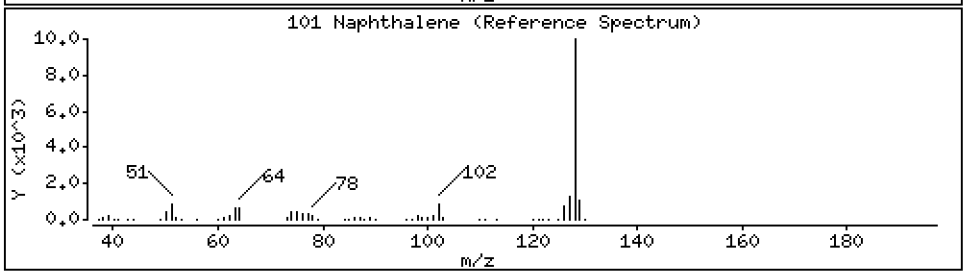
Sample Info: SG9044-6DL

101 Naphthalene Concentration: 174 ug/Kgdrywt









Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-7DL
Client ID: RS-SB7-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4456.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 87.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	120	ug/Kgdrywt	1	5	240	44.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	240	31.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	240	53.	120
Toluene	U	120	ug/Kgdrywt	1	5	240	67.	120
Xylenes (Total)	U	360	ug/Kgdrywt	1	15	720	62.	360
m+p-Xylenes	U	240	ug/Kgdrywt	1	10	480	82.	240
o-Xylene	U	120	ug/Kgdrywt	1	5	240	62.	120
p-Bromofluorobenzene		88.8	%					
Toluene-D8		91.3	%					
1,2-Dichloroethane-D4		81.8	%					
Dibromofluoromethane		83.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4456.D
Report Date: 02-Dec-2013 12:11

Katahdin Analytical Services

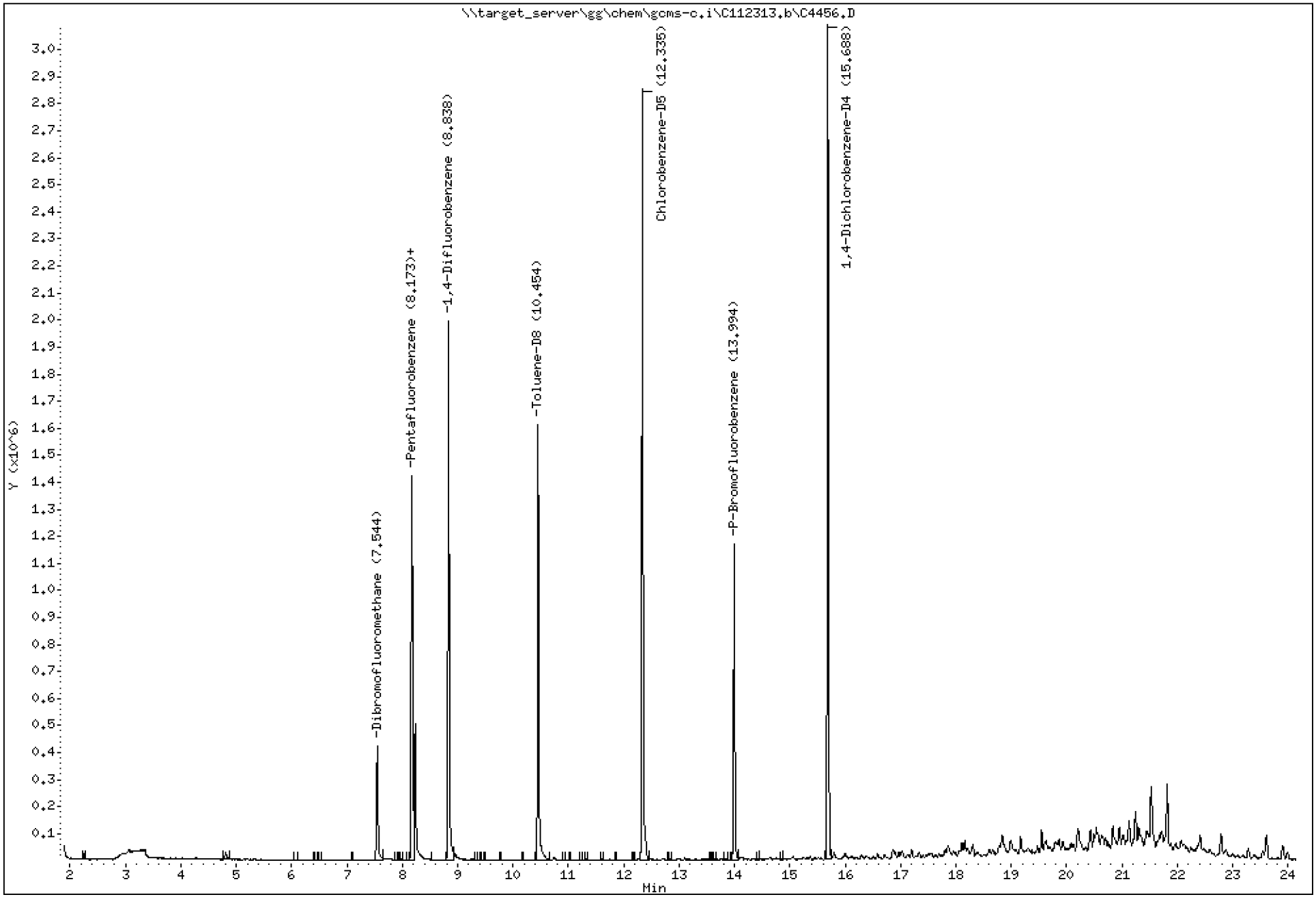
Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4456.D
Lab Smp Id: SG9044-7DL Client Smp ID: RS-SB7-111413
Inj Date : 23-NOV-2013 15:16
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-7DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	12.708	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	7.010	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.551	7.549	(0.924)	288057	41.8788	2020	
* 42 Pentafluorobenzene	168	8.173	8.178	(1.000)	901833	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.007)	304854	40.8997	1970	
* 49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1577375	50.0000		
$ 55 Toluene-D8	98	10.454	10.452	(1.183)	1051689	45.6349	2200	
* 66 Chlorobenzene-D5	117	12.334	12.340	(1.000)	1612251	50.0000		
$ 76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	477930	44.4039	2140	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	903100	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4456.D
Date : 23-NOV-2013 15:16
Client ID: RS-SB7-111413
Instrument: gcms-c.i
Sample Info: SG9044-7DL



Katahdin Analytical Services 0000084

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-8DL
Client ID: RS-SB8-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4457.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 78.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	160	ug/Kgdrywt	1	5	320	58.	160
Ethylbenzene	U	160	ug/Kgdrywt	1	5	320	41.	160
Methyl tert-butyl Ether	U	160	ug/Kgdrywt	1	5	320	69.	160
Toluene	U	160	ug/Kgdrywt	1	5	320	88.	160
Xylenes (Total)	U	470	ug/Kgdrywt	1	15	940	82.	470
m+p-Xylenes	U	320	ug/Kgdrywt	1	10	630	110	320
o-Xylene	U	160	ug/Kgdrywt	1	5	320	82.	160
p-Bromofluorobenzene		88.3	%					
Toluene-D8		92.3	%					
1,2-Dichloroethane-D4		81.6	%					
Dibromofluoromethane		82.2	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4457.D
Report Date: 02-Dec-2013 12:11

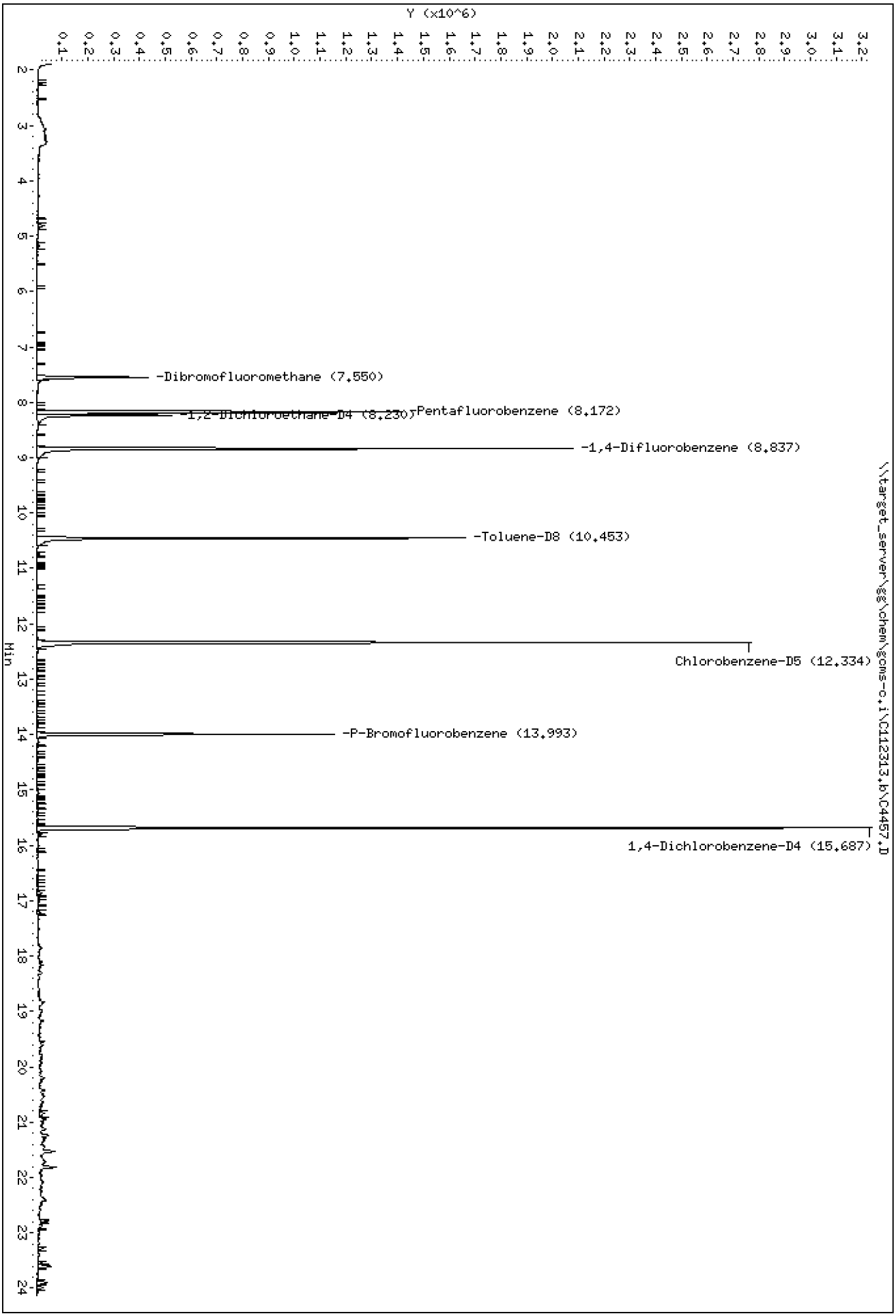
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4457.D
Lab Smp Id: SG9044-8DL Client Smp ID: RS-SB8-111413
Inj Date : 23-NOV-2013 15:49
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-8DL
Misc Info : WG134993,WG134365-4
Comment   : SW846 5035,MED
Method   : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
   Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	22.065	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.520	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$ 37 Dibromofluoromethane	113	7.550	7.549	(0.923)	293704	41.0896	2600	
* 42 Pentafluorobenzene	168	8.179	8.178	(1.000)	937173	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.229	8.228	(1.006)	315905	40.7841	2580	
* 49 1,4-Difluorobenzene	114	8.837	8.836	(1.000)	1584267	50.0000		
$ 55 Toluene-D8	98	10.453	10.452	(1.183)	1067885	46.1361	2920	
* 66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	1621846	50.0000		
$ 76 P-Bromofluorobenzene	95	13.992	13.992	(1.583)	477240	44.1469	2800	
* 91 1,4-Dichlorobenzene-D4	152	15.687	15.686	(1.000)	925615	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.550)
-1,2-Dichloroethane-D4 (8.230)
Pentafluorobenzene (8.172)
-1,4-Difluorobenzene (8.837)
-Toluene-D8 (10.453)
Chlorobenzene-D5 (12.334)
-P-Bromofluorobenzene (13.993)
1,4-Dichlorobenzene-D4 (15.687)
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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4457.D
Date : 23-NOV-2013 15:49
Client ID: RS-SB8-111413
Sample Info: SG9044-8DL
Instrument: gcms-c.i

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-9DL
Client ID: FD-SO-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4458.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 86.
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	130	ug/Kgdrywt	1	5	260	48.	130
Ethylbenzene	U	130	ug/Kgdrywt	1	5	260	34.	130
Methyl tert-butyl Ether	U	130	ug/Kgdrywt	1	5	260	57.	130
Toluene	U	130	ug/Kgdrywt	1	5	260	73.	130
Xylenes (Total)	U	390	ug/Kgdrywt	1	15	780	68.	390
m+p-Xylenes	U	260	ug/Kgdrywt	1	10	520	88.	260
o-Xylene	U	130	ug/Kgdrywt	1	5	260	68.	130
p-Bromofluorobenzene		98.6	%					
Toluene-D8		92.3	%					
1,2-Dichloroethane-D4		81.4	%					
Dibromofluoromethane		82.4	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4458.D
Report Date: 02-Dec-2013 12:11

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4458.D
Lab Smp Id: SG9044-9DL Client Smp ID: FD-SO-111813
Inj Date : 23-NOV-2013 16:23
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-9DL
Misc Info : WG134993,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

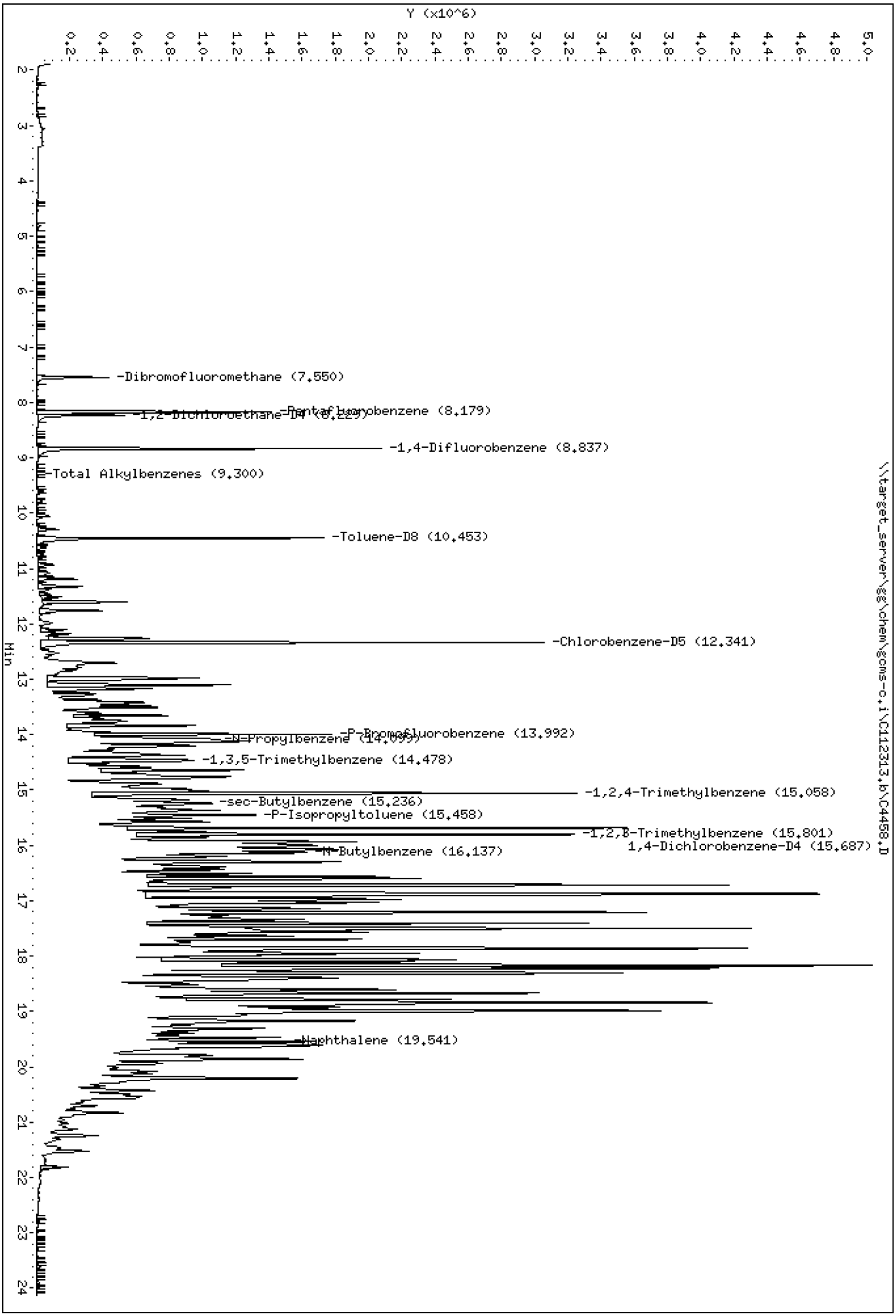
Name	Value	Description
DF	1.000	Dilution Factor
M	13.996	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	6.570	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kgdrywt)	REVIEW COD
$	37	Dibromofluoromethane	113	7.549	7.549	(0.923)	292274	41.2121	2160	
*	42	Pentafluorobenzene	168	8.179	8.178	(1.000)	929840	50.0000		
$	45	1,2-Dichloroethane-D4	65	8.229	8.228	(1.006)	312826	40.7051	2130	
*	49	1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1609835	50.0000		
$	55	Toluene-D8	98	10.452	10.452	(1.183)	1085515	46.1529	2420	
*	66	Chlorobenzene-D5	117	12.340	12.340	(1.000)	1622857	50.0000		
$	76	P-Bromofluorobenzene	95	13.999	13.992	(1.584)	541822	49.3250	2580	
	80	N-Propylbenzene	91	14.185	14.185	(0.904)	52461	1.14874	60.2(a)	
	82	1,3,5-Trimethylbenzene	105	14.478	14.478	(0.923)	95162	2.87905	151(a)	
	88	1,2,4-Trimethylbenzene	105	15.064	15.064	(0.960)	537495	16.4517	862	
	89	P-Isopropyltoluene	119	15.457	15.457	(0.985)	380655	11.8301	620	
*	91	1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	917317	50.0000		
	93	N-Butylbenzene	91	16.137	16.137	(1.029)	359031	9.54325	500	
	94	sec-Butylbenzene	105	15.236	15.229	(0.971)	218460	5.42461	284	
	100	1,2,3-Trimethylbenzene	105	15.751	15.750	(1.004)	322705	9.76956	512	
	101	Naphthalene	128	19.540	19.533	(1.246)	246928	12.0409	631	
M	153	Total Alkylbenzenes	100				1643264	47.2774	2480	

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4458.D
Report Date: 02-Dec-2013 12:11

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



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Date : 23-NOV-2013 16:23
Client ID: FD-SO-111813
Sample Info: SG9044-9DL

Instrument: gcms-c.i

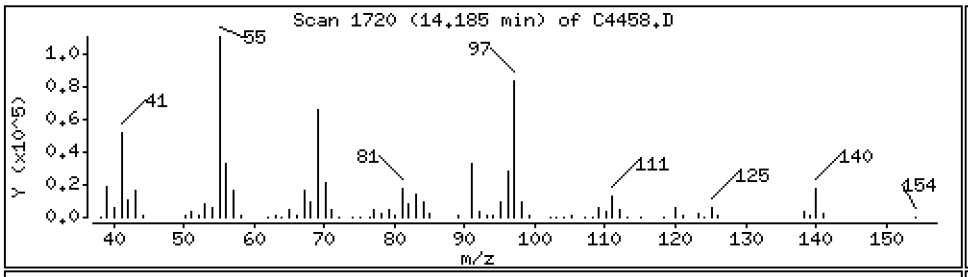
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4458.D

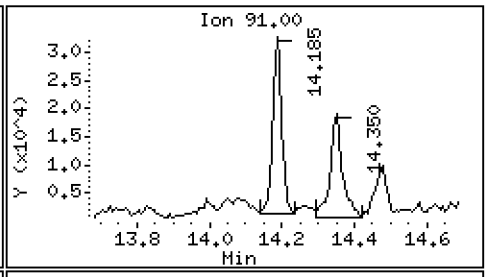
Date : 23-NOV-2013 16:23

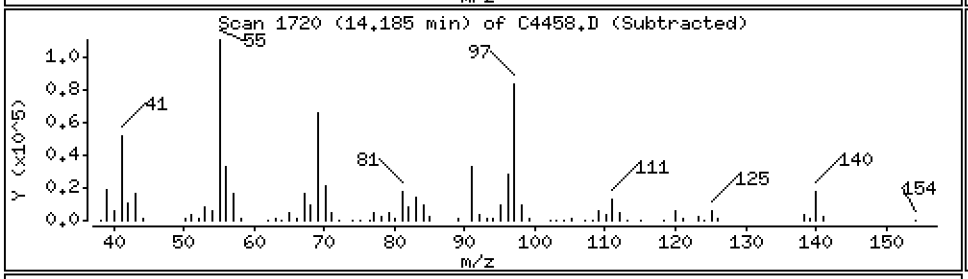
Client ID: FD-SO-111813 Instrument: gcms-c.i

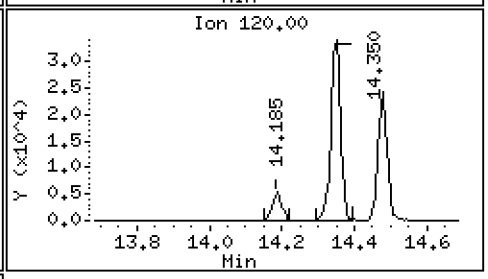
Sample Info: SG9044-9DL

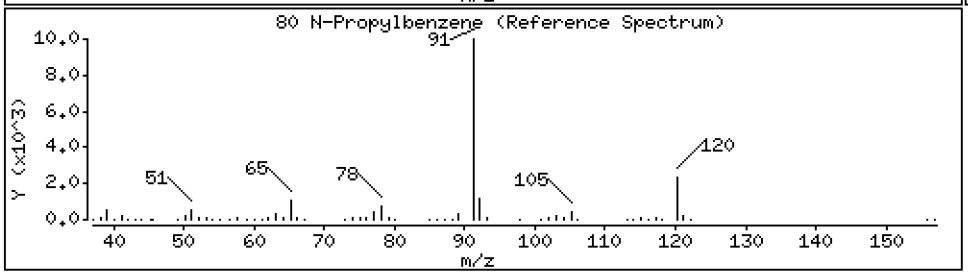
80 N-Propylbenzene Concentration: 60.2 ug/Kgdrywt



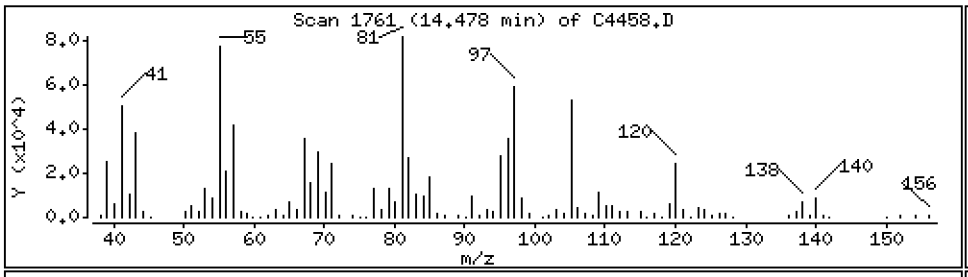


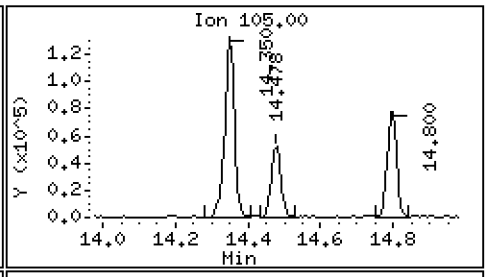


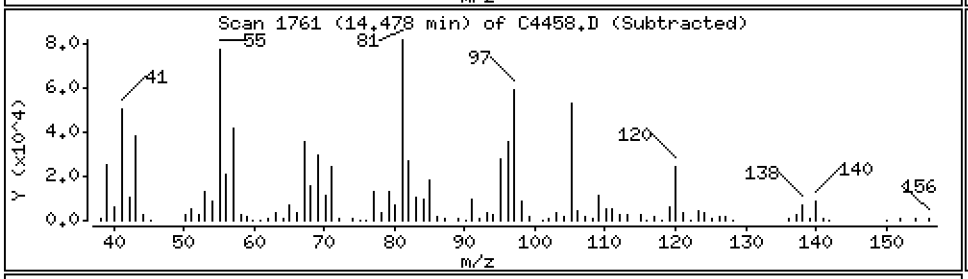


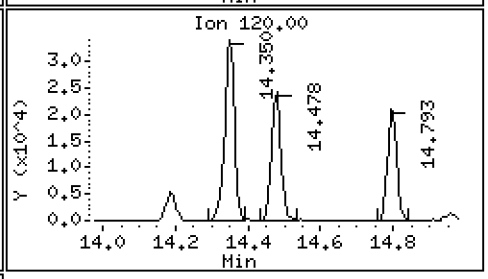


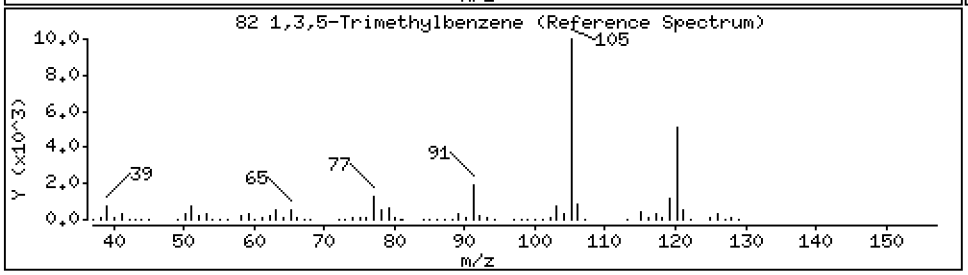
82 1,3,5-Trimethylbenzene Concentration: 151 ug/Kgdrywt











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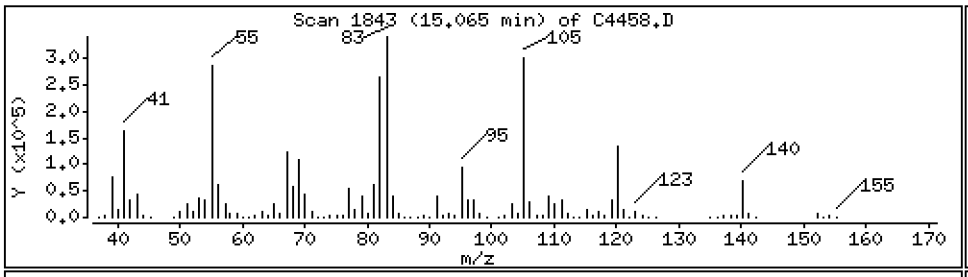
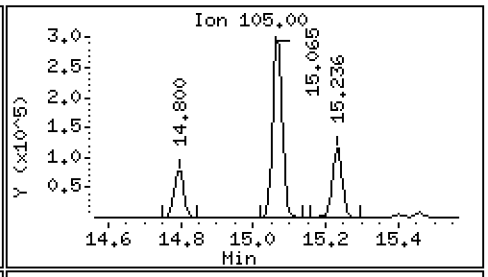
Date : 23-NOV-2013 16:23

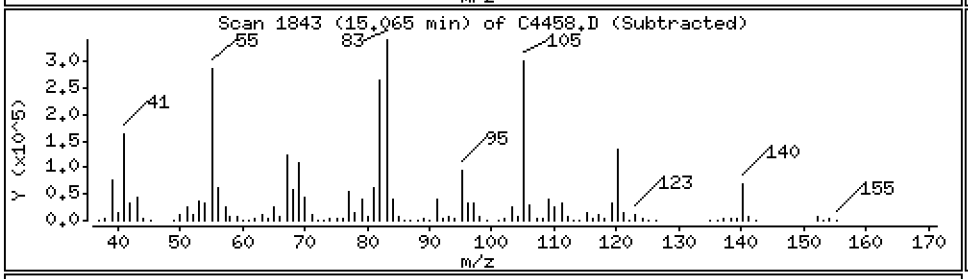
Client ID: FD-SO-111813 Instrument: gcms-c.i

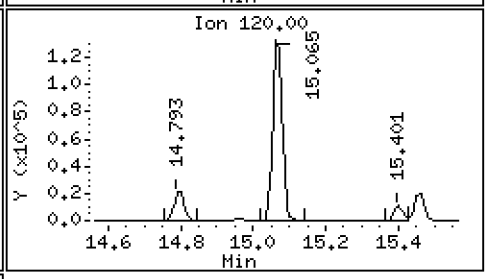
Sample Info: SG9044-9DL

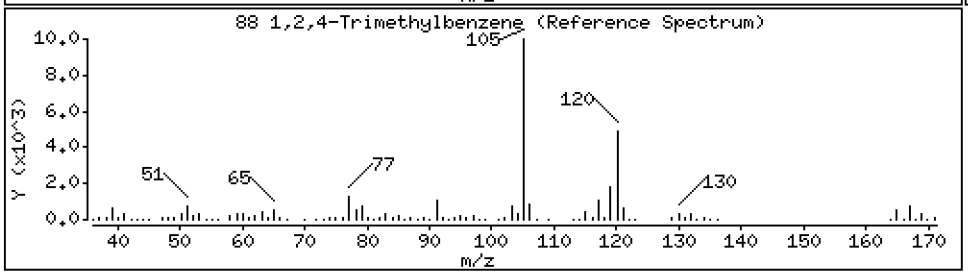
88 1,2,4-Trimethylbenzene Concentration: 862 ug/Kgdrywt



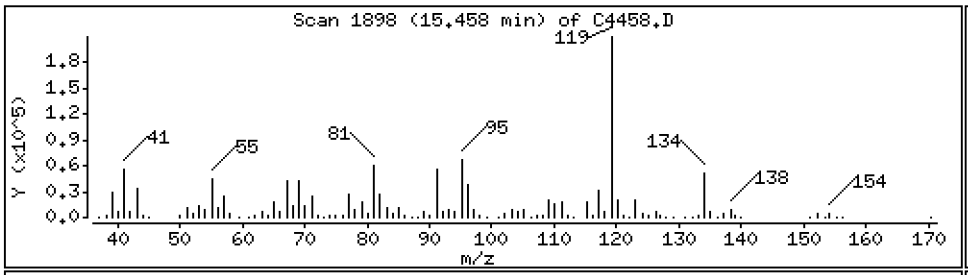


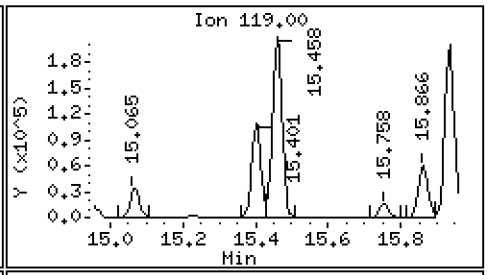


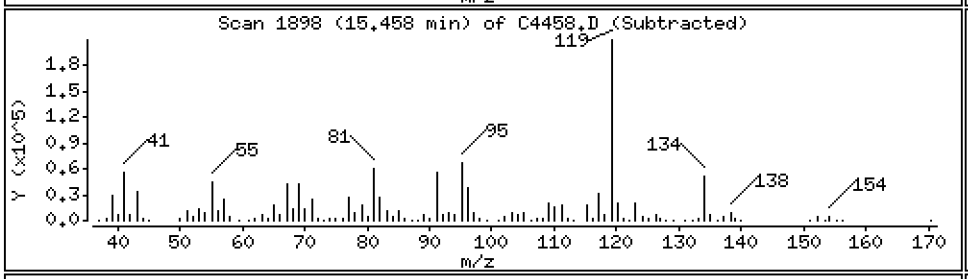


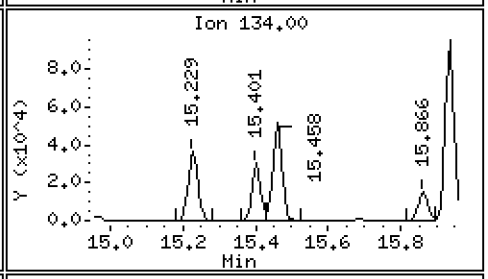


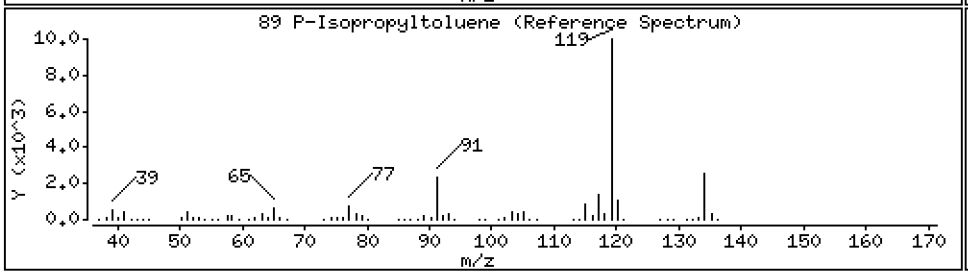
89 P-Isopropyltoluene Concentration: 620 ug/Kgdrywt

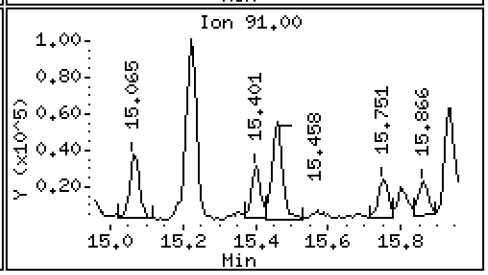












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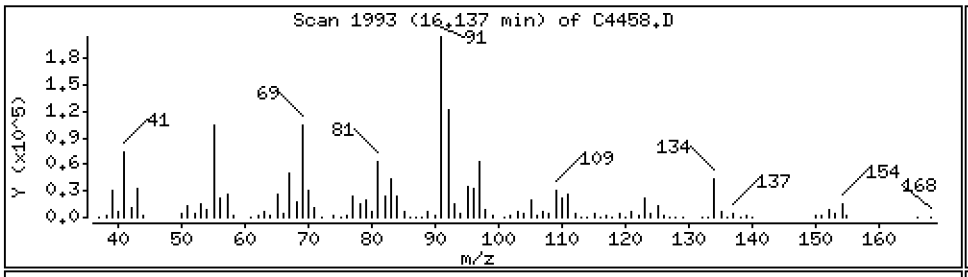
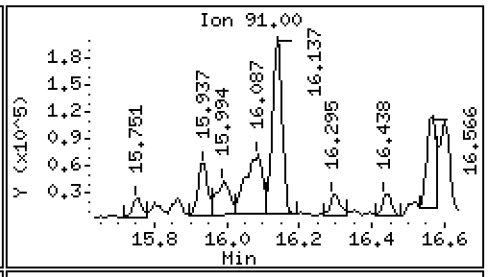
Date : 23-NOV-2013 16:23

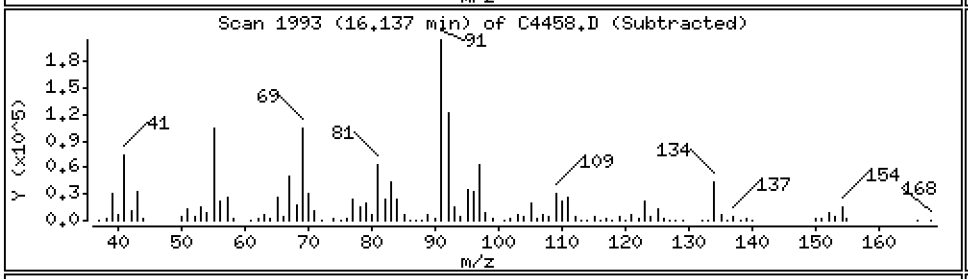
Client ID: FD-SO-111813 Instrument: gcms-c.i

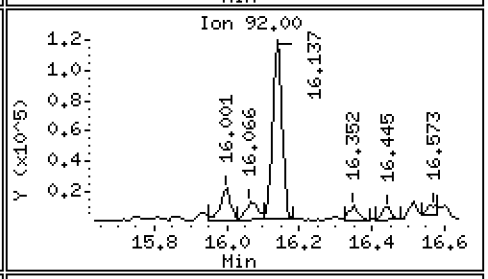
Sample Info: SG9044-9DL

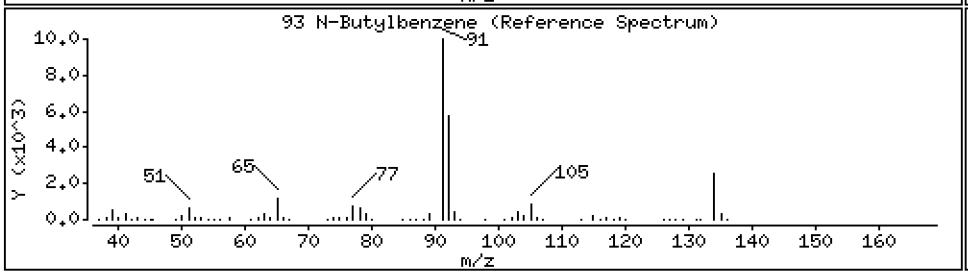
93 N-Butylbenzene Concentration: 500 ug/Kgdrywt

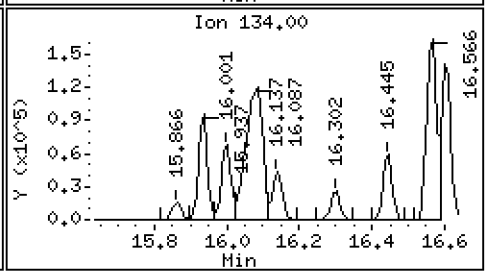




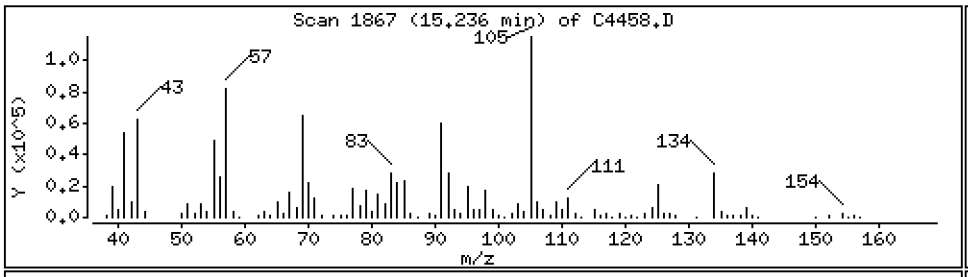


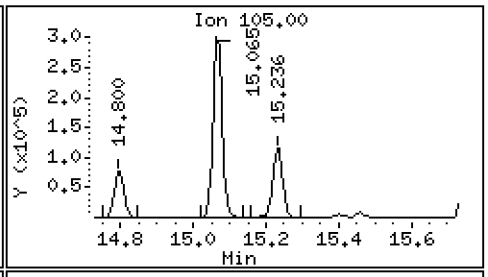


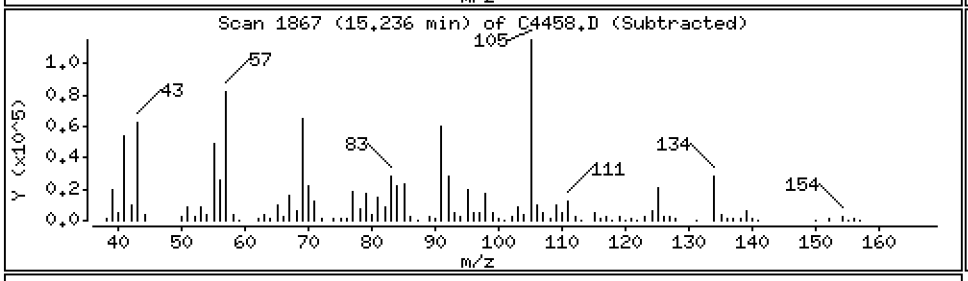


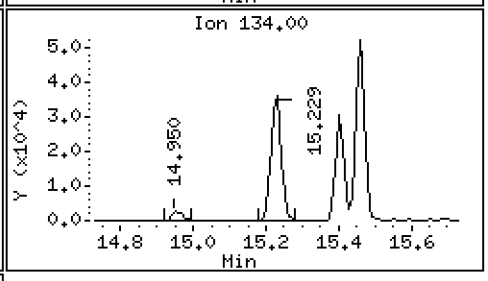


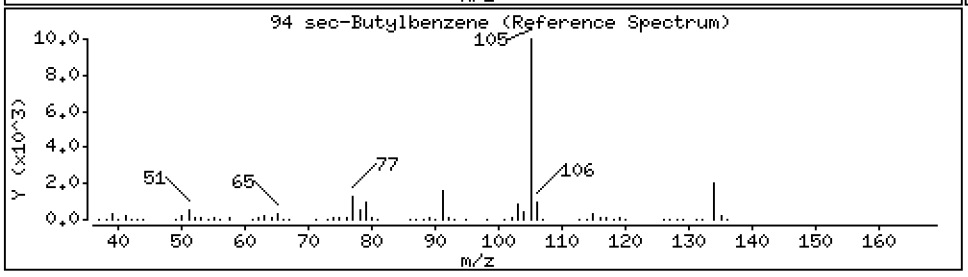
94 sec-Butylbenzene Concentration: 284 ug/Kgdrywt











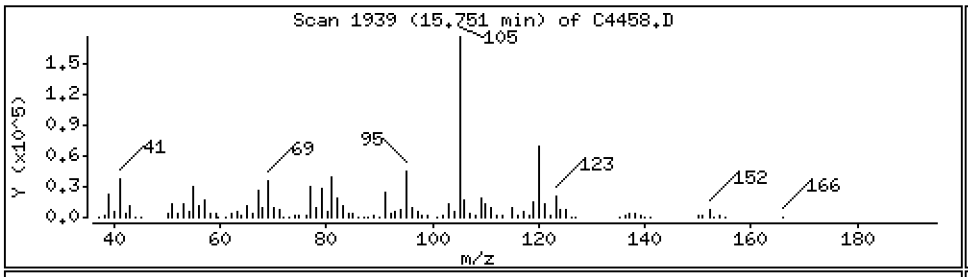
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4458.D

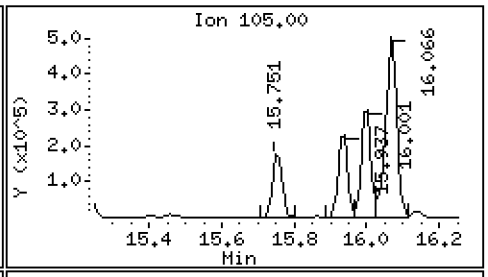
Date : 23-NOV-2013 16:23

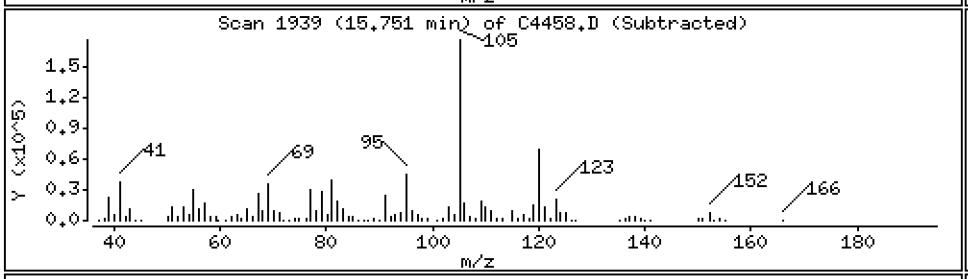
Client ID: FD-SO-111813 Instrument: gcms-c.i

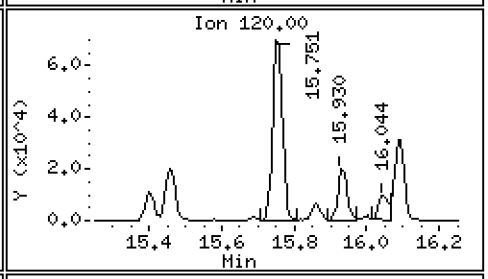
Sample Info: SG9044-9DL

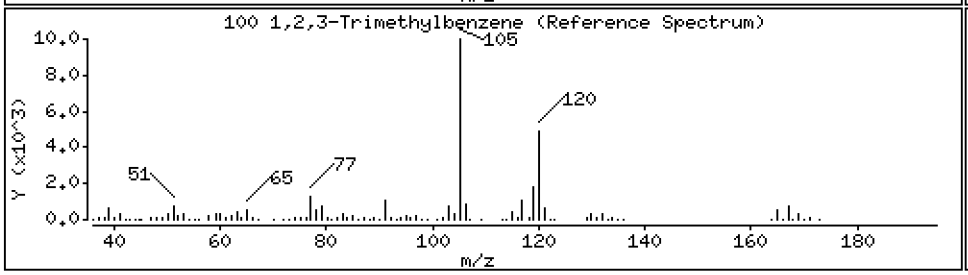
100 1,2,3-Trimethylbenzene Concentration: 512 ug/Kgdrywt

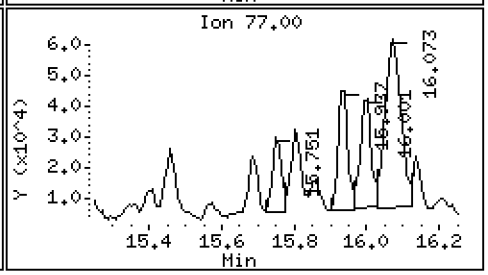




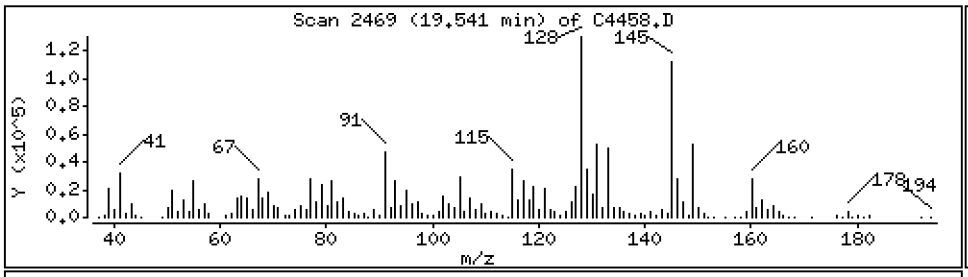


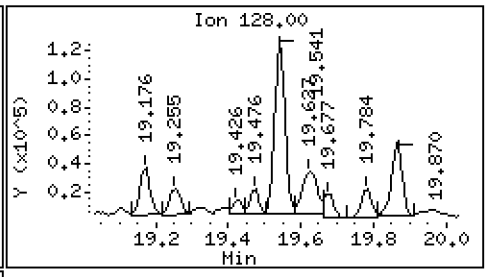


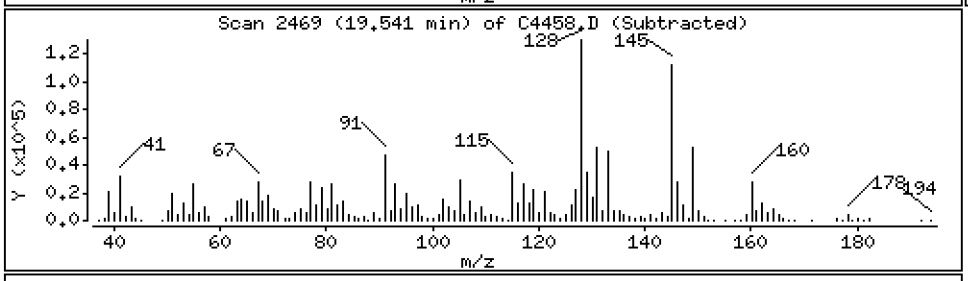


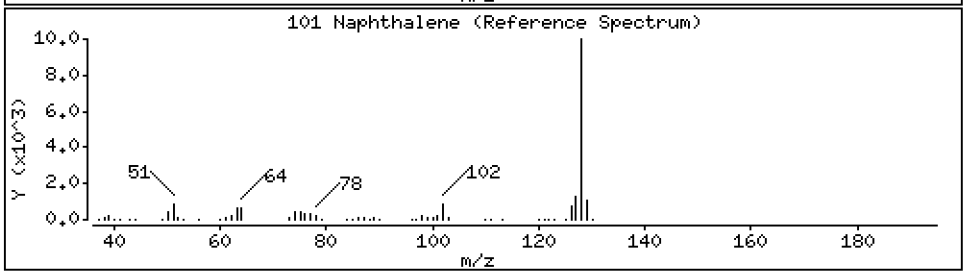


101 Naphthalene Concentration: 631 ug/Kgdrywt









Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-10DL
Client ID: TB-SO-110813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: C4424.D

Sample Date: 08-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: REC
Extraction Method: SW846 5035
Lab Prep Batch: WG134916

Analysis Date: 22-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: 100
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	250	32.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	55.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	70.	120
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	750	65.	380
m+p-Xylenes	U	250	ug/Kgdrywt	1	10	500	85.	250
o-Xylene	U	120	ug/Kgdrywt	1	5	250	65.	120
p-Bromofluorobenzene		88.8	%					
Toluene-D8		92.5	%					
1,2-Dichloroethane-D4		95.4	%					
Dibromofluoromethane		87.9	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4424.D
Report Date: 02-Dec-2013 12:01

Katahdin Analytical Services

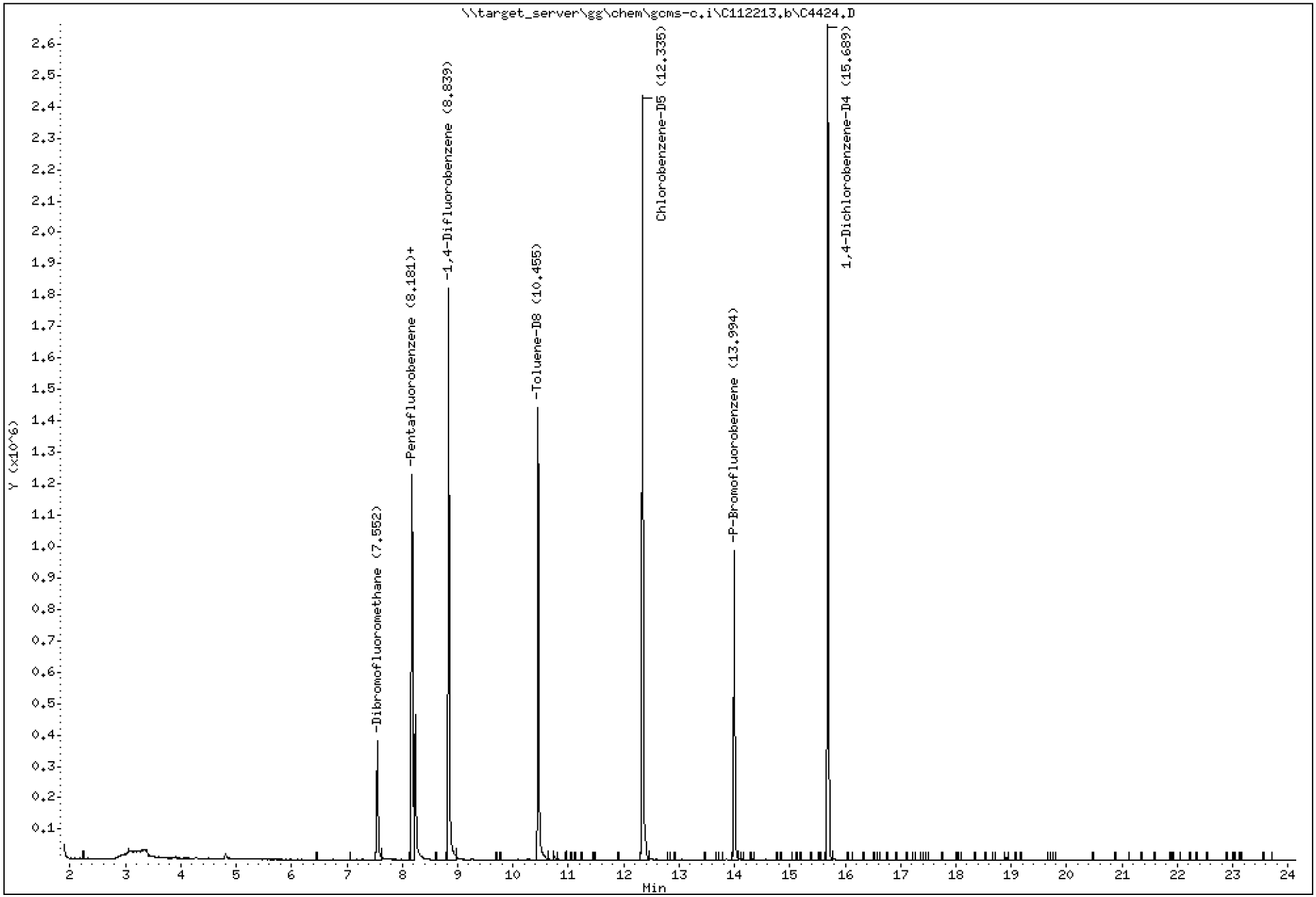
Data file : \\target_server\gg\chem\gcms-c.i\C112213.b\C4424.D
Lab Smp Id: SG9044-10DL Client Smp ID: TB-SO-110813
Inj Date : 22-NOV-2013 12:07
Operator : REC Inst ID: gcms-c.i
Smp Info : SG9044-10DL
Misc Info : WG134916,WG134365-4
Comment : SW846 5035,MED
Method : \\Target_server\gg\chem\gcms-c.i\C112213.b\C826A90.m
Meth Date : 02-Dec-2013 12:00 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vo	40000.000	Prep Volume (uL)
Ws	5.000	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	800.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$	37 Dibromofluoromethane	113	7.551	7.549	(0.923)	250638	43.9694	2200	
*	42 Pentafluorobenzene	168	8.180	8.178	(1.000)	747375	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.231	8.228	(1.006)	294729	47.7132	2380	
*	49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1342918	50.0000		
$	55 Toluene-D8	98	10.454	10.452	(1.183)	907439	46.2501	2310	
*	66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	1338990	50.0000		
$	76 P-Bromofluorobenzene	95	13.994	13.992	(1.583)	406781	44.3918	2220	
*	91 1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	721442	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4424.D
Date : 22-NOV-2013 12:07
Client ID: TB-SO-110813
Instrument: gcms-c.i
Sample Info: SG9044-10DL



Katahdin Analytical Services 0000098

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-1
Client ID: RS-MW1-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6923.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		93.0	%					
Toluene-d8		95.7	%					
1,2-Dichloroethane-d4		92.3	%					
Dibromofluoromethane		92.4	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6923.D
Report Date: 02-Dec-2013 12:21

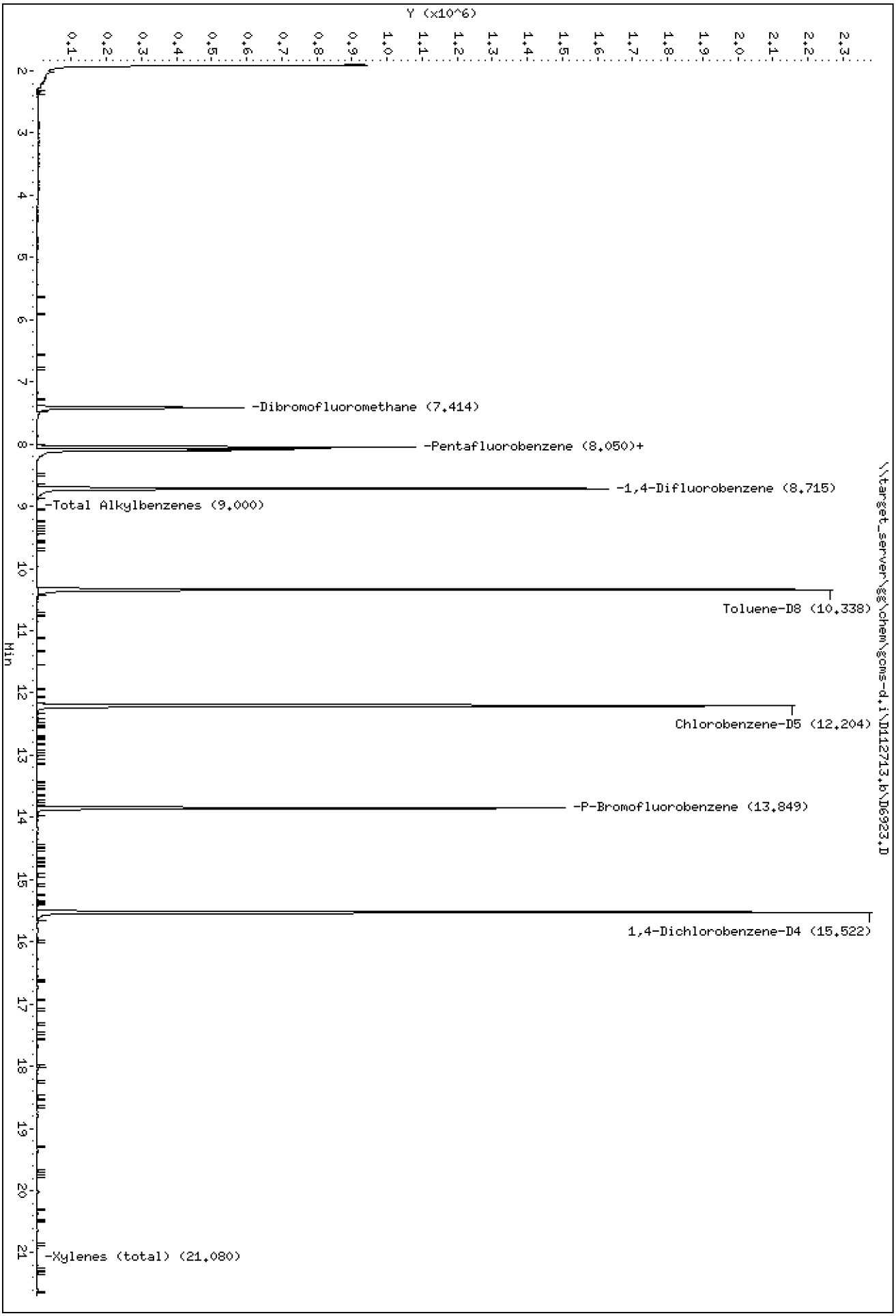
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6923.D
Lab Smp Id: SG9180-1 Client Smp ID: RS-MW1-112013
Inj Date : 27-NOV-2013 13:52
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-1
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.413	7.408	(0.920)	324597	46.1757	46.2	
* 42 Pentafluorobenzene	168	8.057	8.052	(1.000)	692313	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.004)	451556	46.1383	46.1	
* 49 1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1175218	50.0000		
$ 55 Toluene-D8	98	10.338	10.333	(1.186)	1292451	47.8488	47.8	
* 66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1096988	50.0000		
$ 76 P-Bromofluorobenzene	95	13.848	13.843	(1.589)	510456	46.5068	46.5	
* 91 1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	672200	50.0000		



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Date : 27-NOV-2013 13:52
Client ID: RS-MW1-112013
Sample Info: SG9180-1

Instrument: gcms-d.i

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-2
Client ID: RS-MW2-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6924.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	L	3.3	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		97.1	%					
Toluene-d8		99.7	%					
1,2-Dichloroethane-d4		92.4	%					
Dibromofluoromethane		95.2	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6924.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6924.D
Lab Smp Id: SG9180-2 Client Smp ID: RS-MW2-112013
Inj Date : 27-NOV-2013 14:24
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-2
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

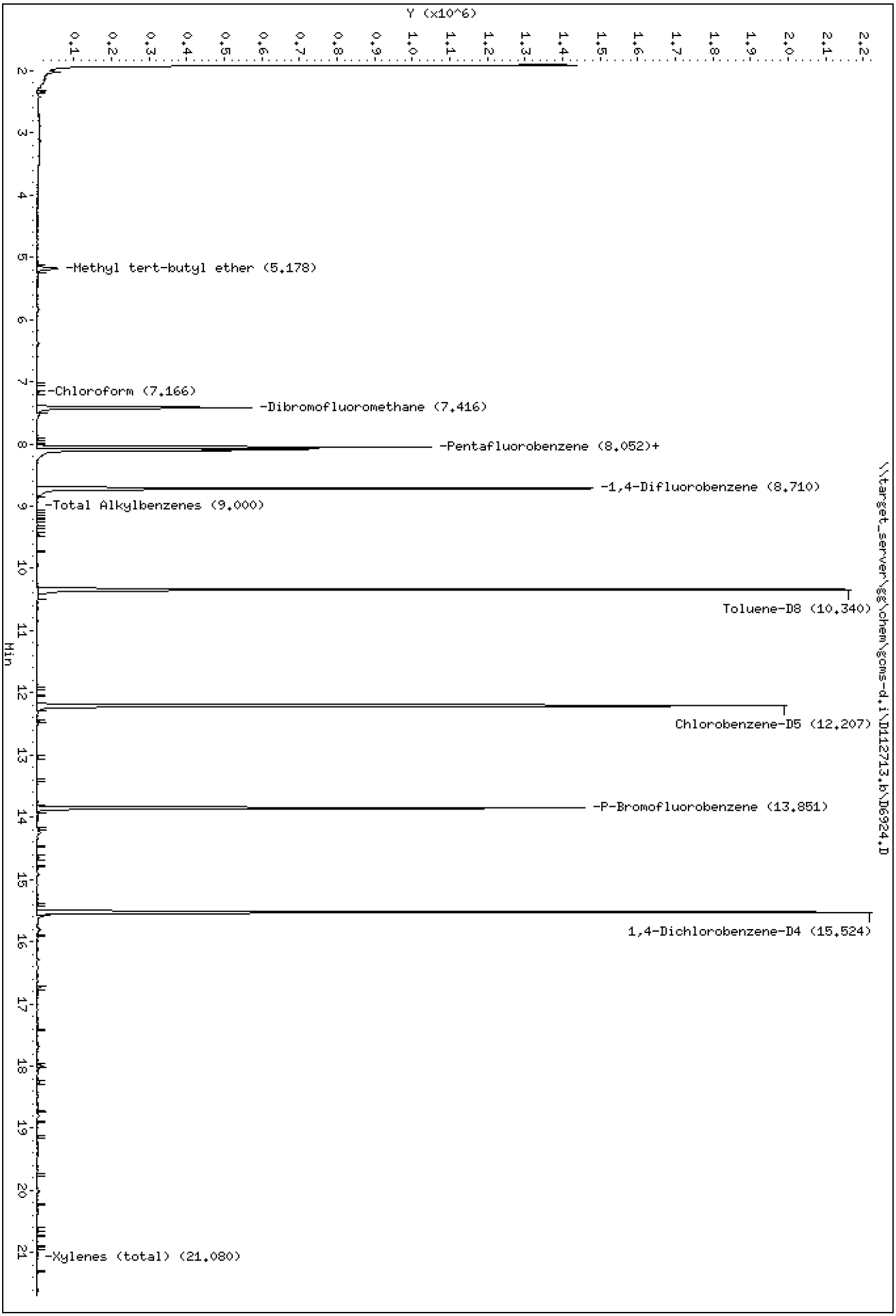
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	19 Methyl tert-butyl ether	73	5.178	5.170	(0.643)	63914	3.27190	3.3	
	34 Chloroform	83	7.165	7.165	(0.890)	4128	0.32936	0.33(aH)	
$	37 Dibromofluoromethane	113	7.416	7.408	(0.921)	319869	47.5926	47.6	
*	42 Pentafluorobenzene	168	8.052	8.052	(1.000)	661918	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	432107	46.1784	46.2	
*	49 1,4-Difluorobenzene	114	8.717	8.710	(1.000)	1106903	50.0000		
$	55 Toluene-D8	98	10.340	10.333	(1.186)	1268398	49.8564	49.8	
*	66 Chlorobenzene-D5	117	12.206	12.199	(1.000)	1037018	50.0000		
$	76 P-Bromofluorobenzene	95	13.851	13.843	(1.589)	501817	48.5414	48.5	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	617291	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6924.D
Date : 27-NOV-2013 14:24
Client ID: RS-MW2-112013
Sample Info: SG9180-2

Instrument: gcms-d.i

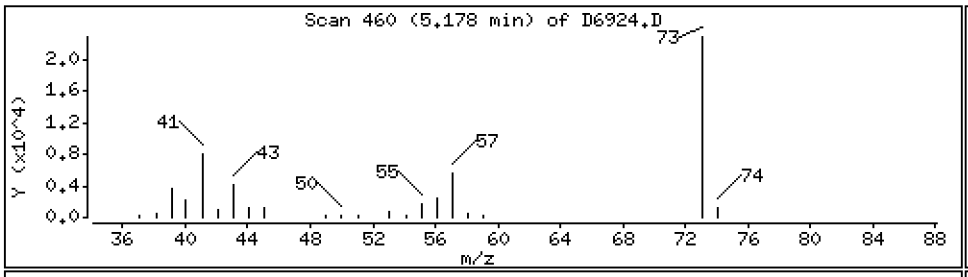
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6924.D

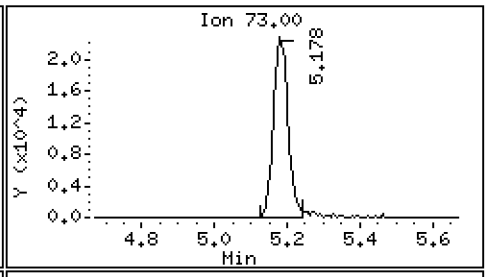
Date : 27-NOV-2013 14:24

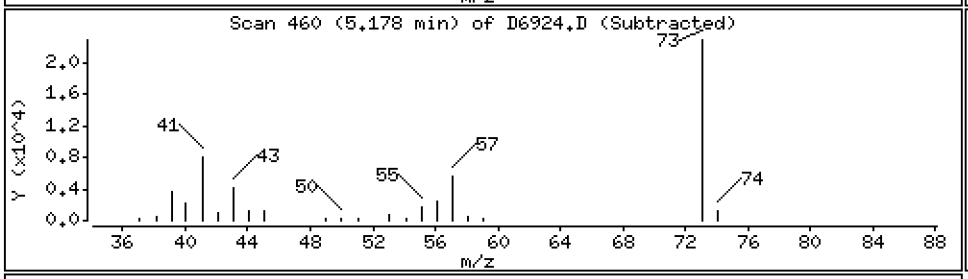
Client ID: RS-MW2-112013 Instrument: gcms-d.i

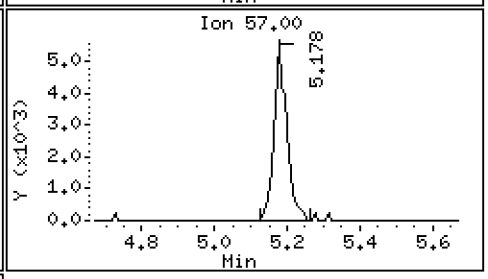
Sample Info: SG9180-2

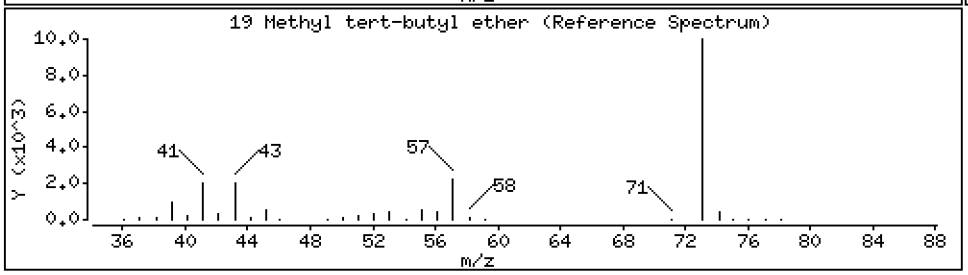
19 Methyl tert-butyl ether Concentration: 3.3 ug/l



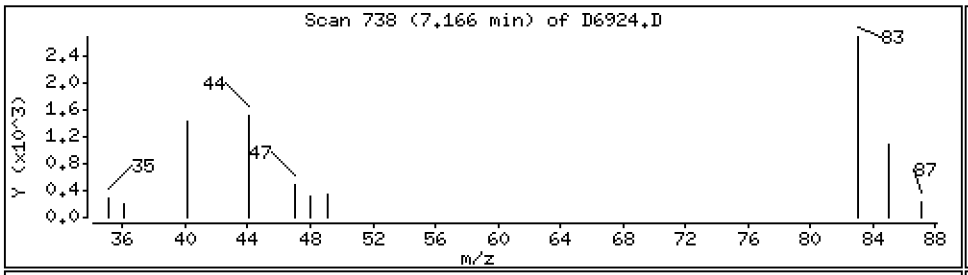


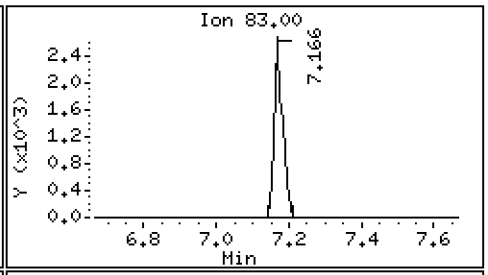


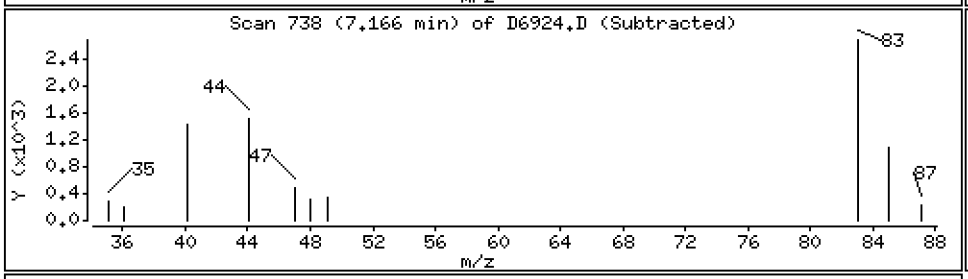


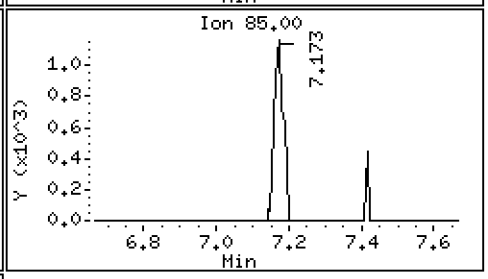


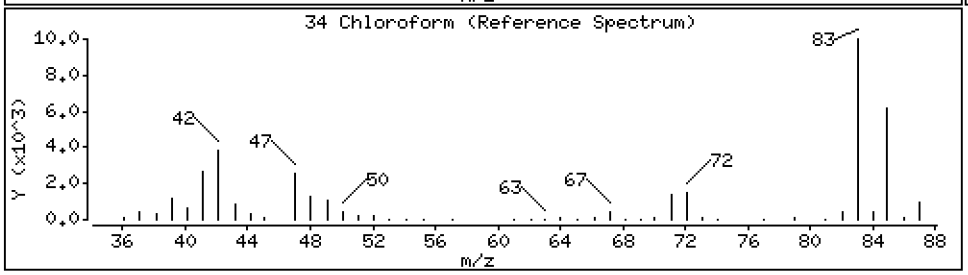
34 Chloroform Concentration: 0.33 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-3
Client ID: RS-MW3-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6925.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		95.4	%					
Toluene-d8		98.0	%					
1,2-Dichloroethane-d4		93.2	%					
Dibromofluoromethane		93.7	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6925.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6925.D
Lab Smp Id: SG9180-3 Client Smp ID: RS-MW3-112013
Inj Date : 27-NOV-2013 14:57
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-3
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

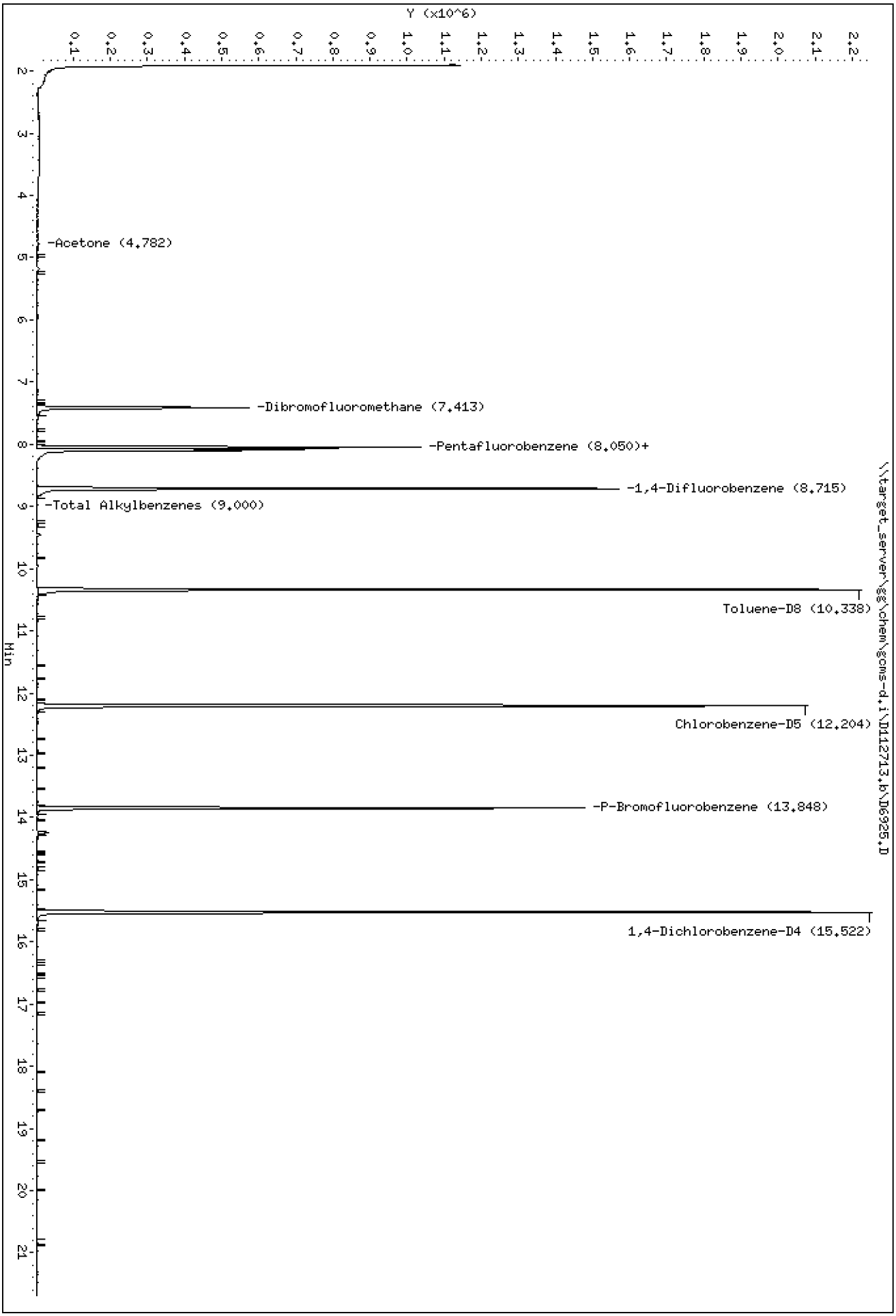
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	15 Acetone	43	4.782	4.770	(0.594)	5870	2.32214	2.3(a)	
$	37 Dibromofluoromethane	113	7.413	7.408	(0.920)	319917	46.8656	46.9	
*	42 Pentafluorobenzene	168	8.056	8.052	(1.000)	672288	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.004)	442672	46.5778	46.6	
*	49 1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1107994	50.0000		
$	55 Toluene-D8	98	10.337	10.333	(1.186)	1247843	49.0002	49.0	
*	66 Chlorobenzene-D5	117	12.203	12.199	(1.000)	1052012	50.0000		
$	76 P-Bromofluorobenzene	95	13.848	13.843	(1.589)	493485	47.6884	47.7	
*	91 1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	632451	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Date : 27-NOV-2013 14:57
Client ID: RS-MW3-112013
Sample Info: SG9180-3

Instrument: gcms-d.i

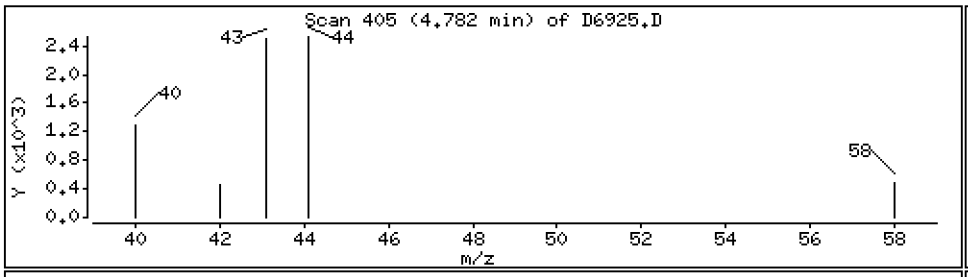
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6925.D

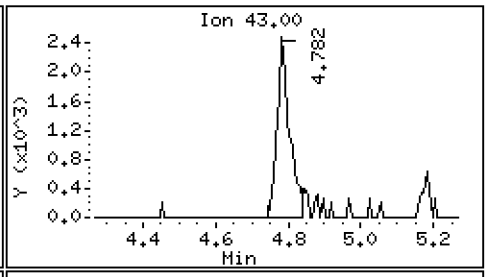
Date : 27-NOV-2013 14:57

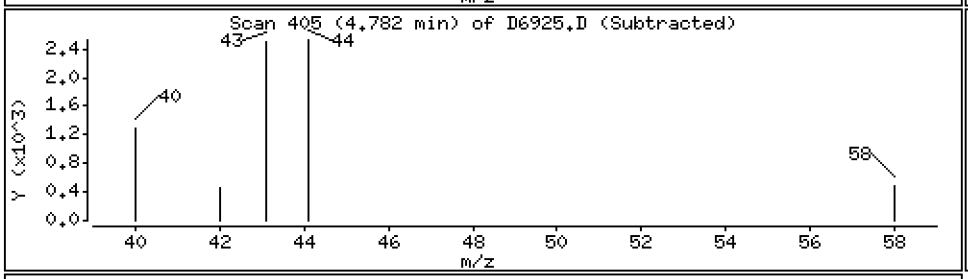
Client ID: RS-MW3-112013 Instrument: gcms-d.i

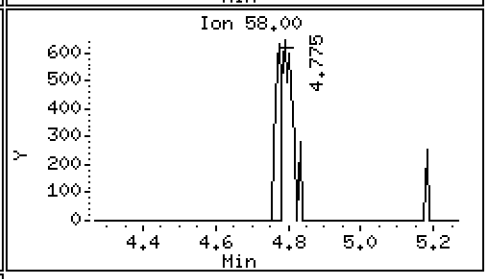
Sample Info: SG9180-3

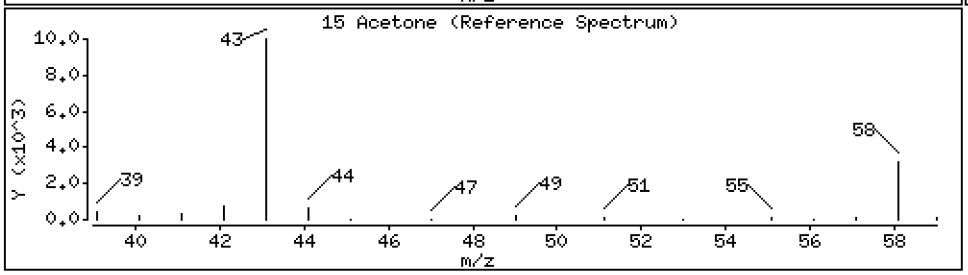
15 Acetone Concentration: 2.3 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-4
Client ID: RS-MW4-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6926.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		94.4	%					
Toluene-d8		96.8	%					
1,2-Dichloroethane-d4		94.0	%					
Dibromofluoromethane		92.1	%					

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REISSUE

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6926.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

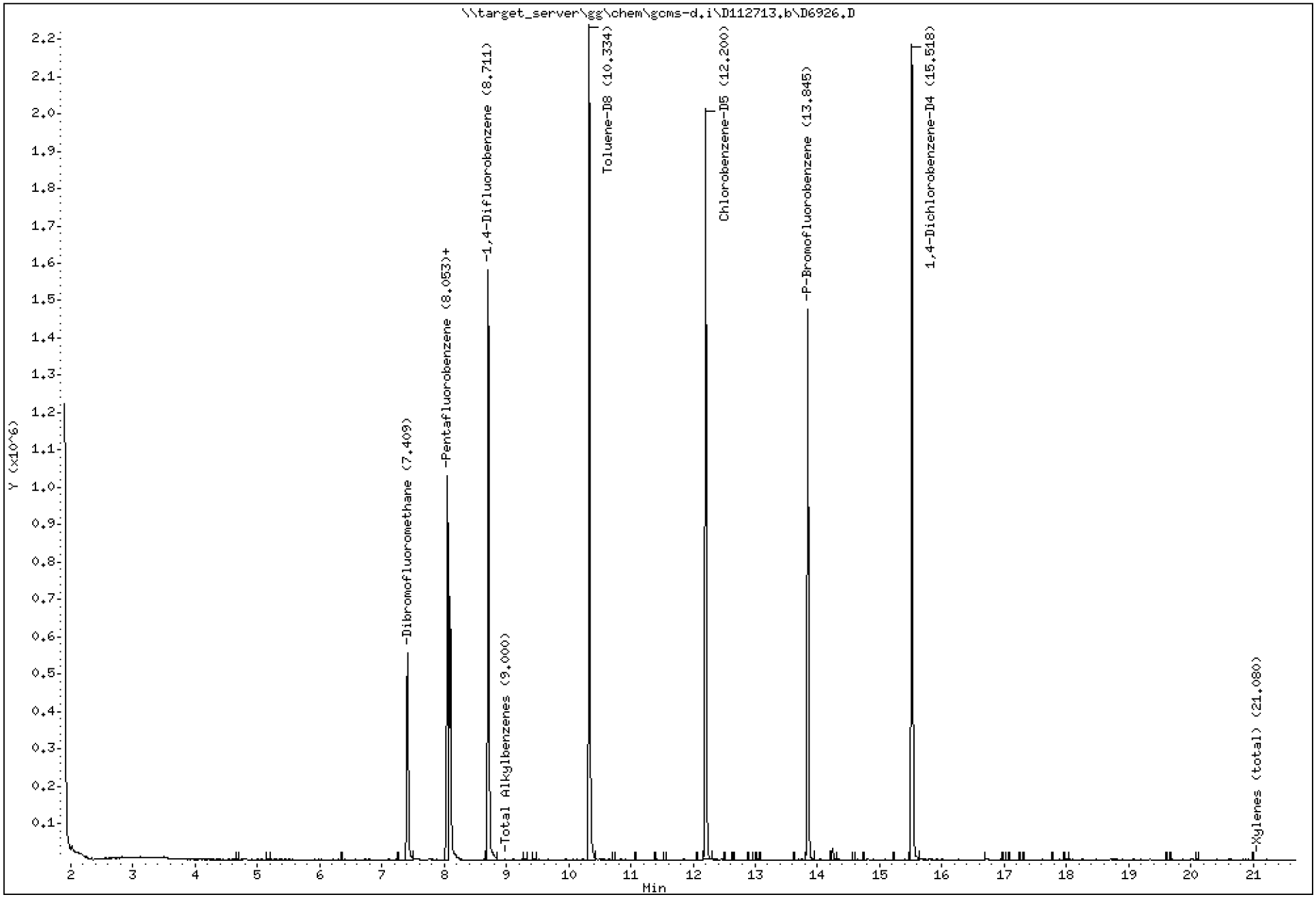
Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6926.D
Lab Smp Id: SG9180-4 Client Smp ID: RS-MW4-112013
Inj Date : 27-NOV-2013 15:30
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-4
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	305001	46.0483	46.0	
*	42 Pentafluorobenzene	168	8.053	8.052	(1.000)	652319	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	433632	47.0233	47.0	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1092293	50.0000		
$	55 Toluene-D8	98	10.333	10.333	(1.186)	1214617	48.3811	48.4	
*	66 Chlorobenzene-D5	117	12.200	12.199	(1.000)	1025210	50.0000		
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	481395	47.1888	47.2	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	620023	50.0000		

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6926.D
Date : 27-NOV-2013 15:30
Client ID: RS-MW4-112013
Instrument: gcms-d.i
Sample Info: SG9180-4



Katahdin Analytical Services 0000112

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-5
Client ID: RS-MW5-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6927.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 22-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	JL	0.72	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		98.8	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		97.8	%					
Dibromofluoromethane		96.9	%					

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REISSUE

Katahdin Analytical Services 0000113

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6927.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6927.D
Lab Smp Id: SG9180-5 Client Smp ID: RS-MW5-112013
Inj Date : 27-NOV-2013 16:03
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-5
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

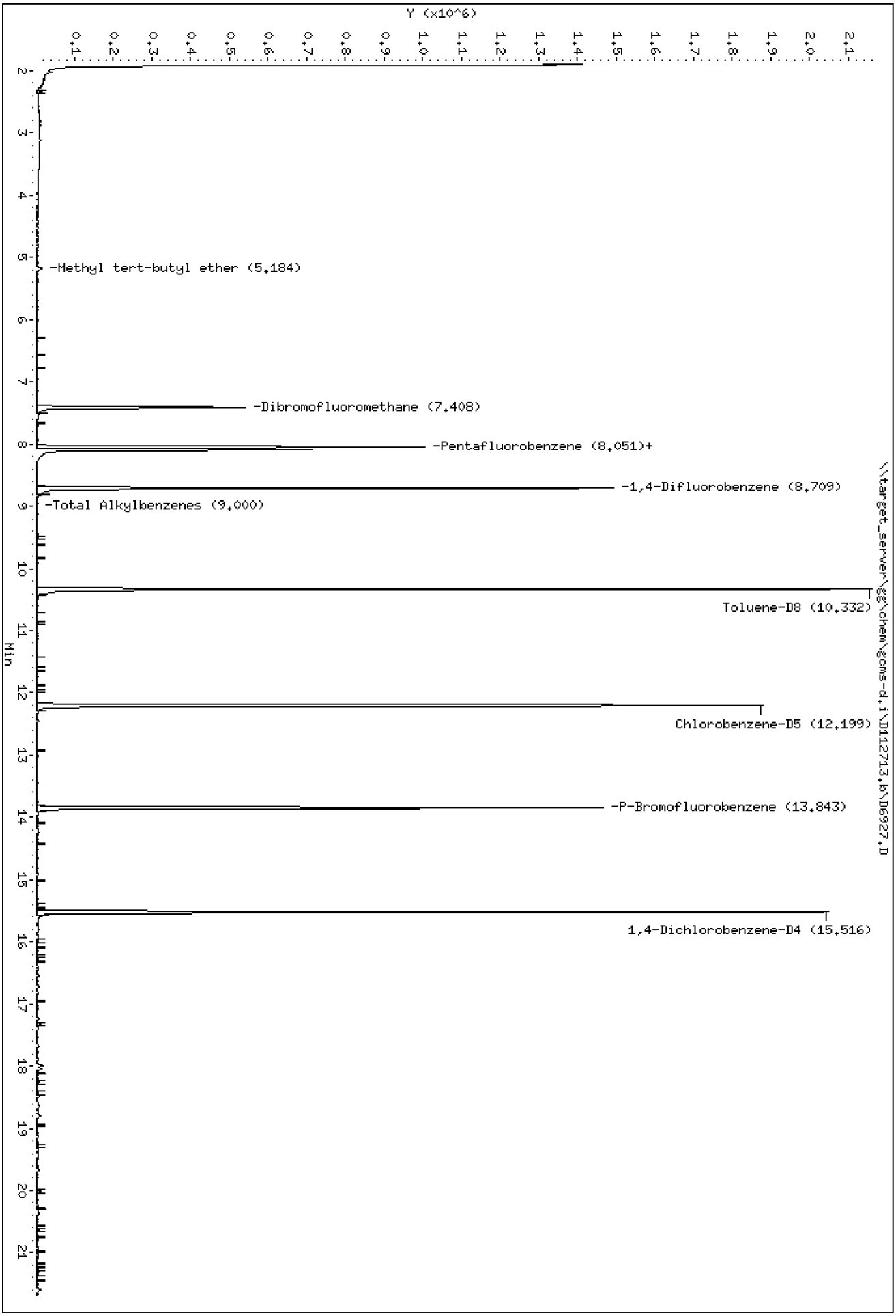
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	19 Methyl tert-butyl ether	73	5.184	5.170	(0.644)	13144	0.71997	0.72(a)	
$	37 Dibromofluoromethane	113	7.407	7.408	(0.920)	304366	48.4561	48.4	
*	42 Pentafluorobenzene	168	8.051	8.052	(1.000)	618614	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.094	8.095	(1.005)	427468	48.8805	48.9	
*	49 1,4-Difluorobenzene	114	8.709	8.710	(1.000)	1026905	50.0000		
$	55 Toluene-D8	98	10.332	10.333	(1.186)	1197897	50.7533	50.8	
*	66 Chlorobenzene-D5	117	12.205	12.199	(1.000)	977573	50.0000		
$	76 P-Bromofluorobenzene	95	13.843	13.843	(1.589)	474049	49.4276	49.4	
*	91 1,4-Dichlorobenzene-D4	152	15.523	15.517	(1.000)	590821	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Methyl tert-butyl ether (5.184)
-Dibromofluoromethane (7.408)
-Pentafluorobenzene (8.051)+
-1,4-Difluorobenzene (8.709)
-Total Alkylbenzenes (9.000)
Toluene-D8 (10.332)
Chlorobenzene-D5 (12.199)
-P-Bromofluorobenzene (13.843)
1,4-Dichlorobenzene-D4 (15.516)
Data File: \\target_server\gc\chem\gcms-d.i\D112713.b\D6927.D
Date : 27-NOV-2013 16:03
Client ID: RS-MW5-112013
Sample Info: SG9180-5
\\target_server\gc\chem\gcms-d.i\D112713.b\D6927.D
Instrument: gcms-d.i

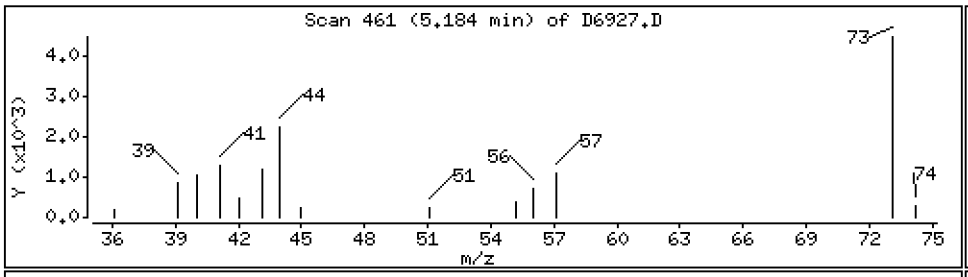
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6927.D

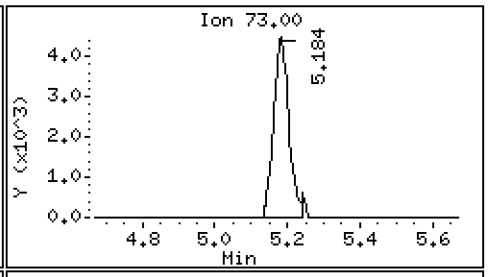
Date : 27-NOV-2013 16:03

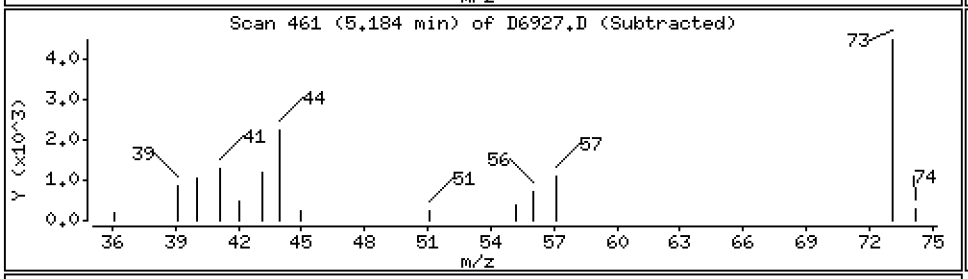
Client ID: RS-MW5-112013 Instrument: gcms-d.i

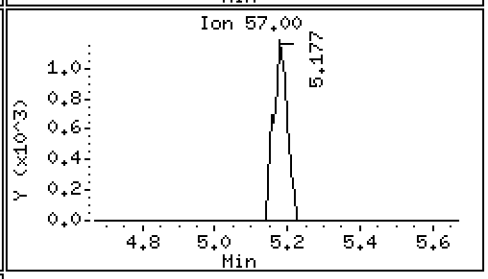
Sample Info: SG9180-5

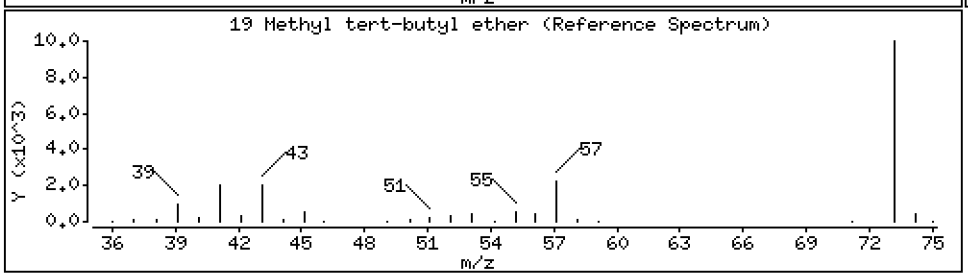
19 Methyl tert-butyl ether Concentration: 0.72 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-6
Client ID: RS-MW6-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6928.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		94.2	%					
Toluene-d8		97.6	%					
1,2-Dichloroethane-d4		94.6	%					
Dibromofluoromethane		97.4	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6928.D
Report Date: 02-Dec-2013 12:21

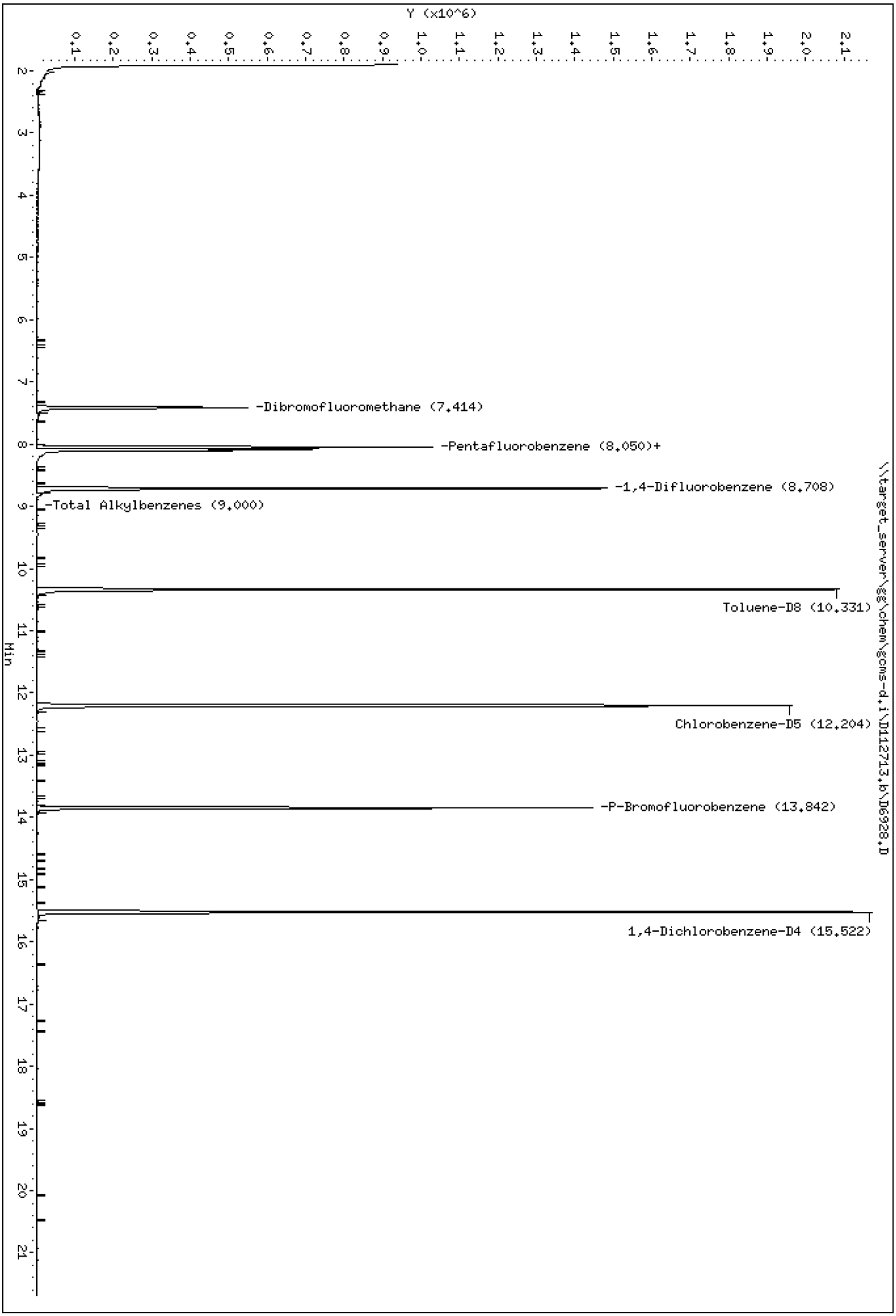
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6928.D
Lab Smp Id: SG9180-6 Client Smp ID: RS-MW6-112013
Inj Date : 27-NOV-2013 16:36
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-6
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.413	7.408	(0.921)	316242	48.6869	48.7	
* 42 Pentafluorobenzene	168	8.050	8.052	(1.000)	639705	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.093	8.095	(1.005)	427607	47.2843	47.3	
* 49 1,4-Difluorobenzene	114	8.715	8.710	(1.000)	1076280	50.0000		
$ 55 Toluene-D8	98	10.331	10.333	(1.185)	1206917	48.7896	48.8	
* 66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1012001	50.0000		
$ 76 P-Bromofluorobenzene	95	13.841	13.843	(1.588)	473434	47.0989	47.1	
* 91 1,4-Dichlorobenzene-D4	152	15.522	15.517	(1.000)	614661	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.414)
-Pentafluorobenzene (8.050)+
-1,4-Difluorobenzene (8.708)
-Total Alkylbenzenes (9.000)
Toluene-D8 (10.331)
Chlorobenzene-D5 (12.204)
-P-Bromofluorobenzene (13.842)
1,4-Dichlorobenzene-D4 (15.522)
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Data File: \\target_server\gc\chem\gcms-d.i\D112713.b\D6928.D
Date : 27-NOV-2013 16:36
Client ID: RS-MW6-112013
Sample Info: SG9180-6
Instrument: gcms-d.i

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-7
Client ID: RS-MW7-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6929.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		99.4	%					
Toluene-d8		102.	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		99.8	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6929.D
Report Date: 02-Dec-2013 12:21

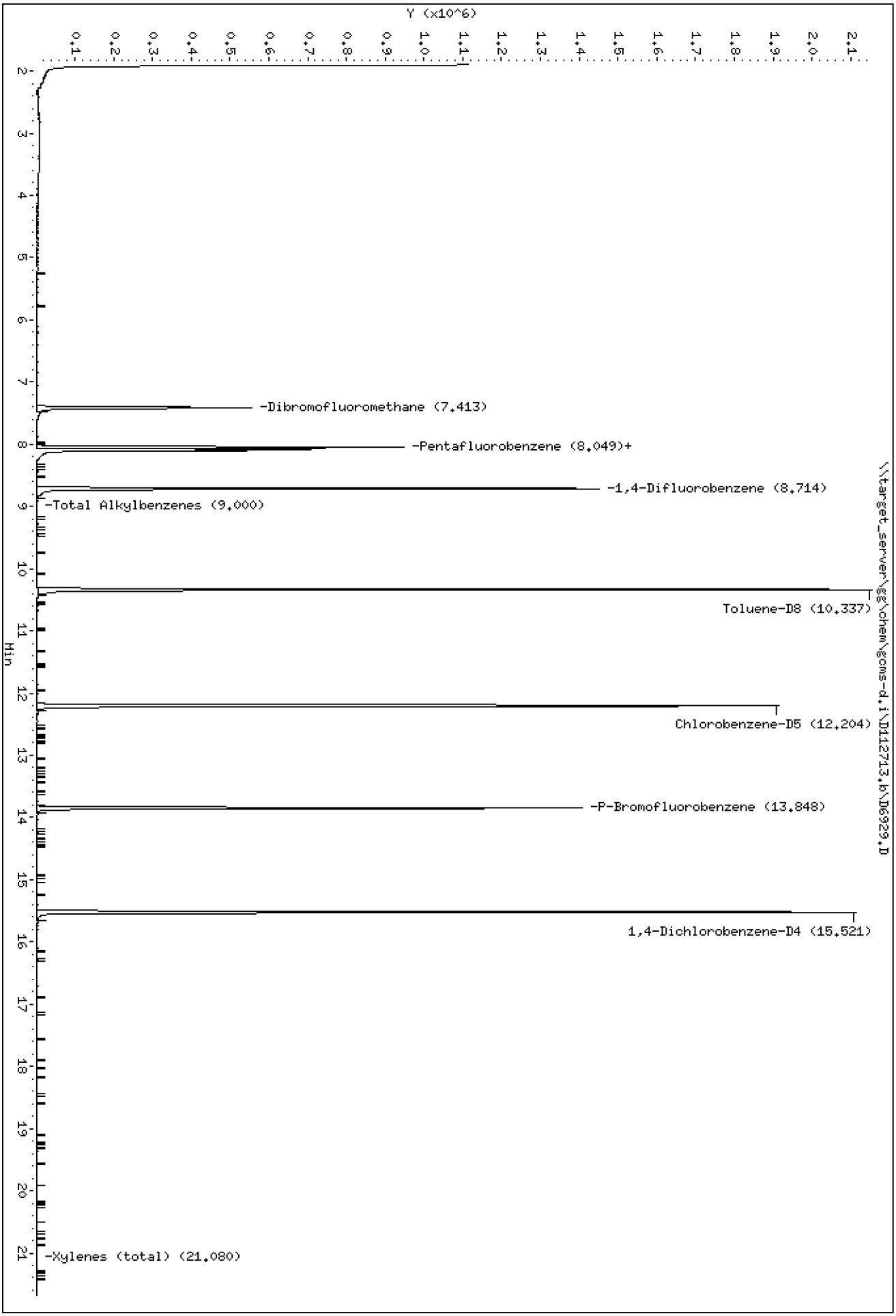
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6929.D
Lab Smp Id: SG9180-7 Client Smp ID: RS-MW7-112013
Inj Date : 27-NOV-2013 17:09
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-7
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.412	7.408	(0.920)	304119	49.9287	49.9	
* 42 Pentafluorobenzene	168	8.056	8.052	(1.000)	599881	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.004)	430092	50.7164	50.7	
* 49 1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1018478	50.0000		
$ 55 Toluene-D8	98	10.337	10.333	(1.186)	1197339	51.1494	51.1	
* 66 Chlorobenzene-D5	117	12.203	12.199	(1.000)	958556	50.0000		
$ 76 P-Bromofluorobenzene	95	13.848	13.843	(1.589)	473032	49.7296	49.7	
* 91 1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	579496	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.413)
-Pentafluorobenzene (8.049)+
-1,4-Difluorobenzene (8.714)
-Total Alkylbenzenes (9.000)
Toluene-D8 (10.337)
Chlorobenzene-D5 (12.204)
-P-Bromofluorobenzene (13.848)
1,4-Dichlorobenzene-D4 (15.521)
-Xylenes (total) (21.080)
Data File: \\target_server\gc\chem\gcms-d.i\D112713.b\D6929.D
Date : 27-NOV-2013 17:09
Client ID: RS-MW7-112013
Sample Info: SG9180-7
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Instrument: gcms-d.i

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-8
Client ID: RS-MW8-112013
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6930.D

Sample Date: 20-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		95.6	%					
Toluene-d8		98.0	%					
1,2-Dichloroethane-d4		100.	%					
Dibromofluoromethane		98.1	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6930.D
Report Date: 02-Dec-2013 12:22

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Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6930.D
Lab Smp Id: SG9180-8 Client Smp ID: RS-MW8-112013
Inj Date : 27-NOV-2013 17:42
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-8
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

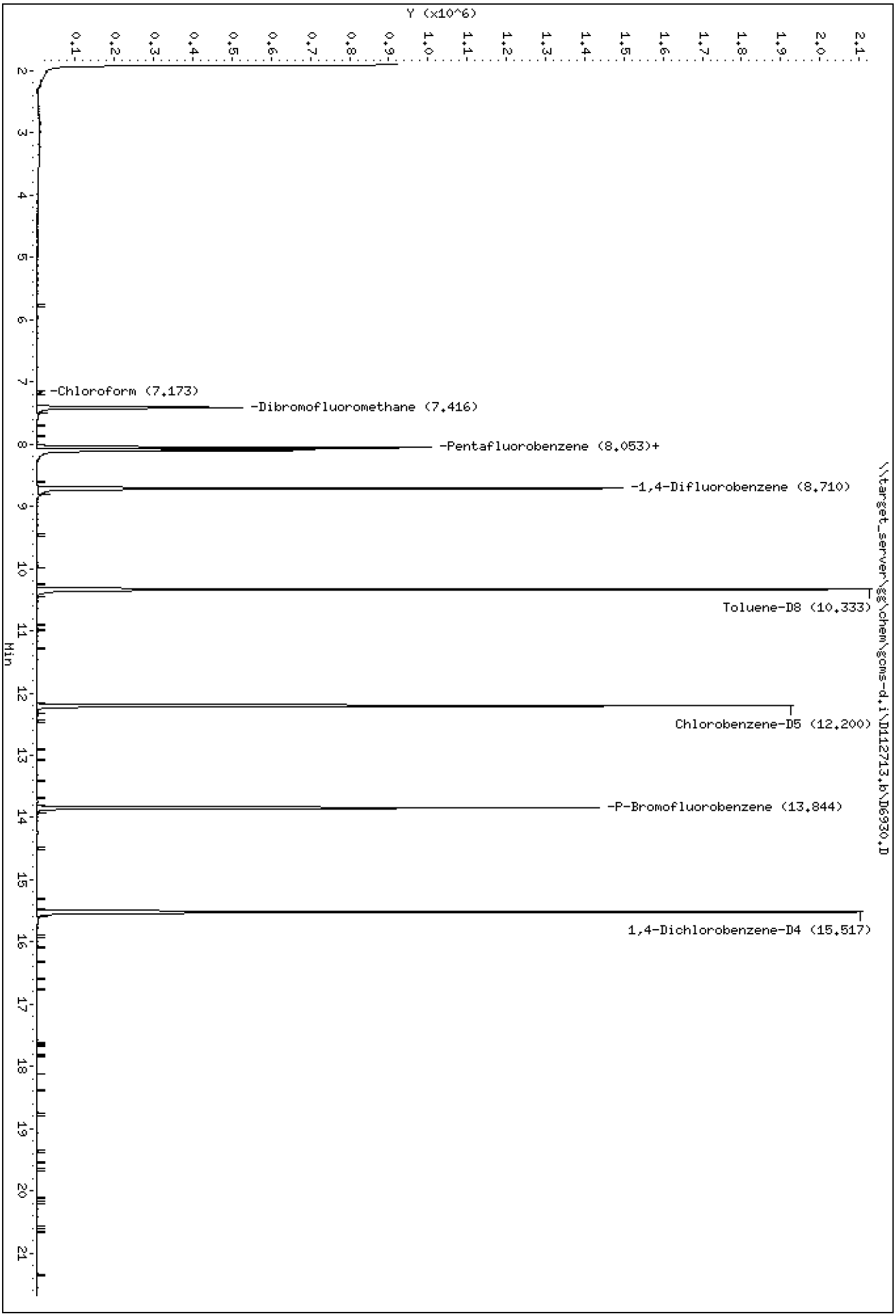
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	34 Chloroform	83	7.173	7.165	(0.891)	9097	0.78409	0.78(a)	
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	305221	49.0591	49.0	
*	42 Pentafluorobenzene	168	8.052	8.052	(1.000)	612726	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	434409	50.1516	50.2	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1045793	50.0000		
$	55 Toluene-D8	98	10.333	10.333	(1.186)	1177351	48.9819	49.0	
*	66 Chlorobenzene-D5	117	12.199	12.199	(1.000)	992590	50.0000		
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	466981	47.8112	47.8	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	594739	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Chloroform (7.173)
-Dibromofluoromethane (7.416)
-Pentafluorobenzene (8.053)+
-1,4-Difluorobenzene (8.710)
Toluene-D8 (10.333)
Chlorobenzene-D5 (12.200)
-P-Bromofluorobenzene (13.844)
1,4-Dichlorobenzene-D4 (15.517)
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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6930.D
Date : 27-NOV-2013 17:42
Client ID: RS-MW8-112013
Sample Info: SG9180-8
Instrument: gcms-d.i

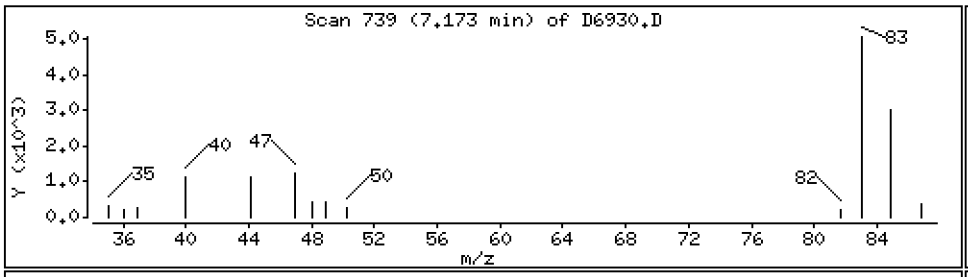
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6930.D

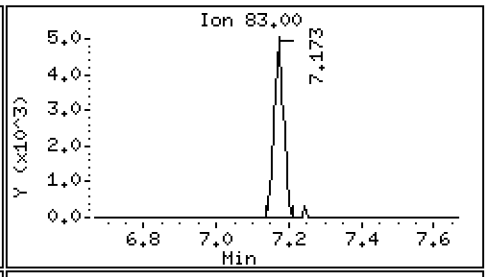
Date : 27-NOV-2013 17:42

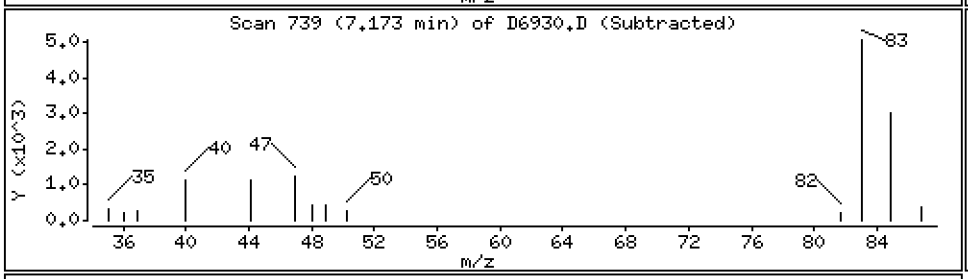
Client ID: RS-MW8-112013 Instrument: gcms-d.i

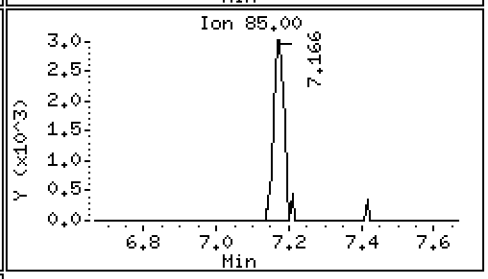
Sample Info: SG9180-8

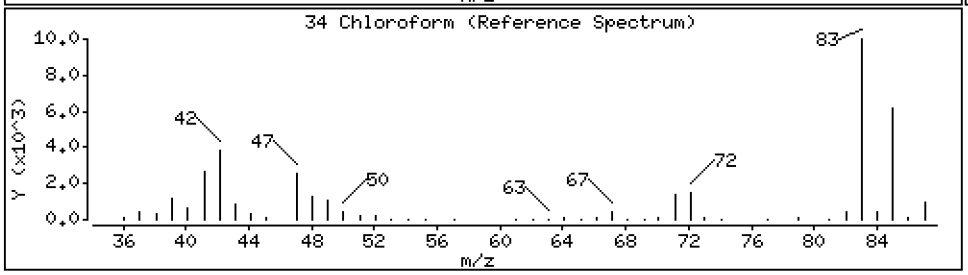
34 Chloroform Concentration: 0.78 ug/l











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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-9
Client ID: FD-GW-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6931.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	JL	0.60	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		94.2	%					
Toluene-d8		98.2	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		99.2	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6931.D
Report Date: 02-Dec-2013 12:22

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6931.D
Lab Smp Id: SG9180-9 Client Smp ID: FD-GW-112113
Inj Date : 27-NOV-2013 18:15
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-9
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

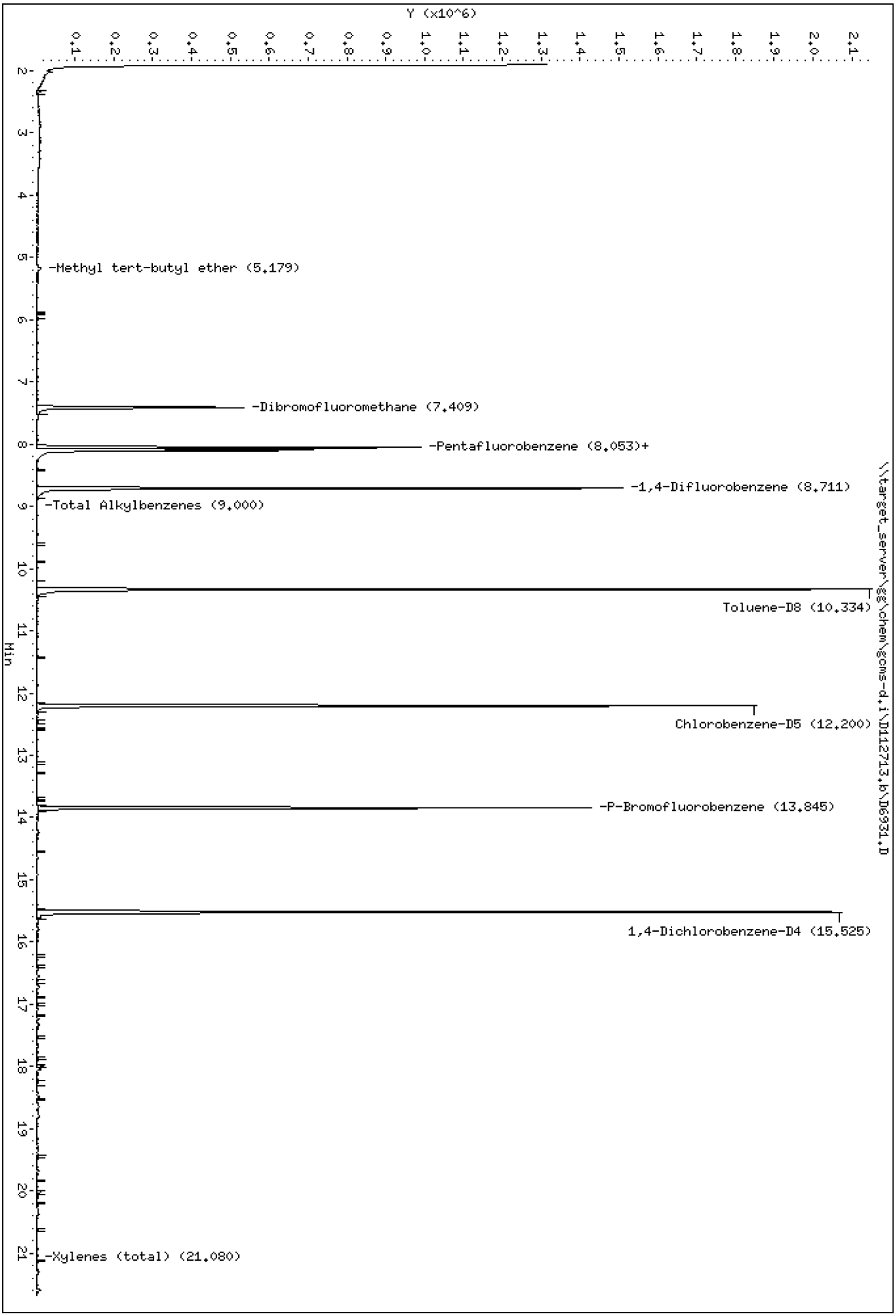
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	19 Methyl tert-butyl ether	73	5.178	5.170	(0.643)	10764	0.60160	0.60(aH)	
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	305191	49.5756	49.6	
*	42 Pentafluorobenzene	168	8.052	8.052	(1.000)	606283	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	431567	50.3529	50.4	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1041589	50.0000		
$	55 Toluene-D8	98	10.333	10.333	(1.186)	1175347	49.0959	49.1	
*	66 Chlorobenzene-D5	117	12.207	12.199	(1.000)	966977	50.0000		
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	458030	47.0840	47.1	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	586115	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\target_server\gc\chem\gcms-d.i\D112713.b\D6931.D
Date : 27-NOV-2013 18:15
Client ID: FD-GW-112413
Sample Info: SG9180-9

Instrument: gcms-d.i

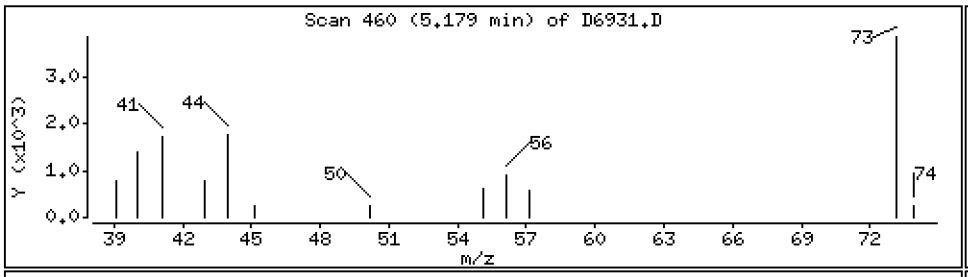
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6931.D

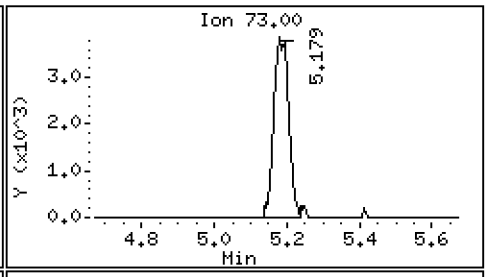
Date : 27-NOV-2013 18:15

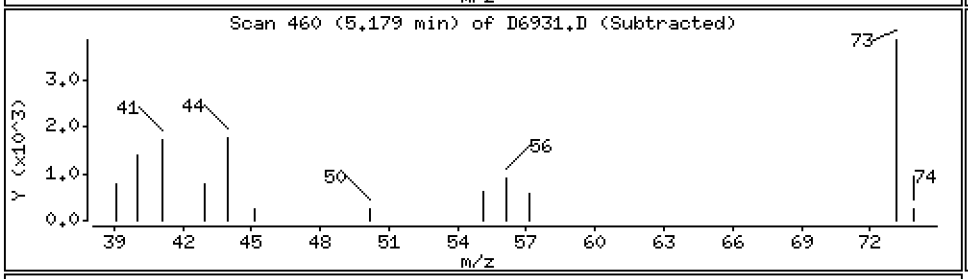
Client ID: FD-GW-112113 Instrument: gcms-d.i

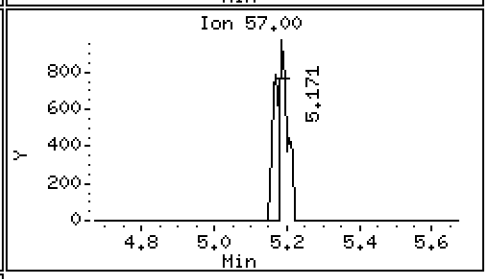
Sample Info: SG9180-9

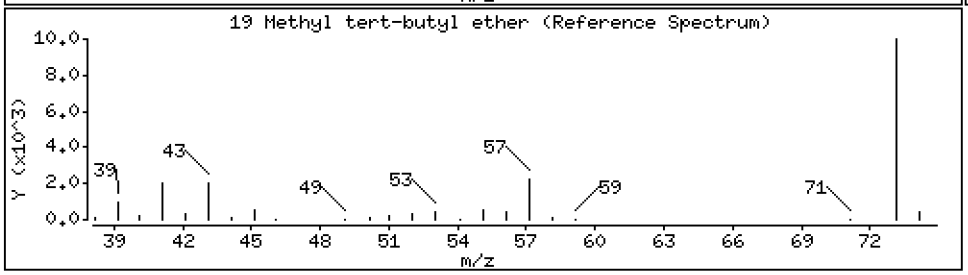
19 Methyl tert-butyl ether Concentration: 0.60 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-10
Client ID: TB-GW-110813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6922.D

Sample Date: 08-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	UL	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		100.	%					
Toluene-d8		103.	%					
1,2-Dichloroethane-d4		97.0	%					
Dibromofluoromethane		99.1	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6922.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6922.D
Lab Smp Id: SG9180-10 Client Smp ID: TB-GW-110813
Inj Date : 27-NOV-2013 13:19
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-10
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

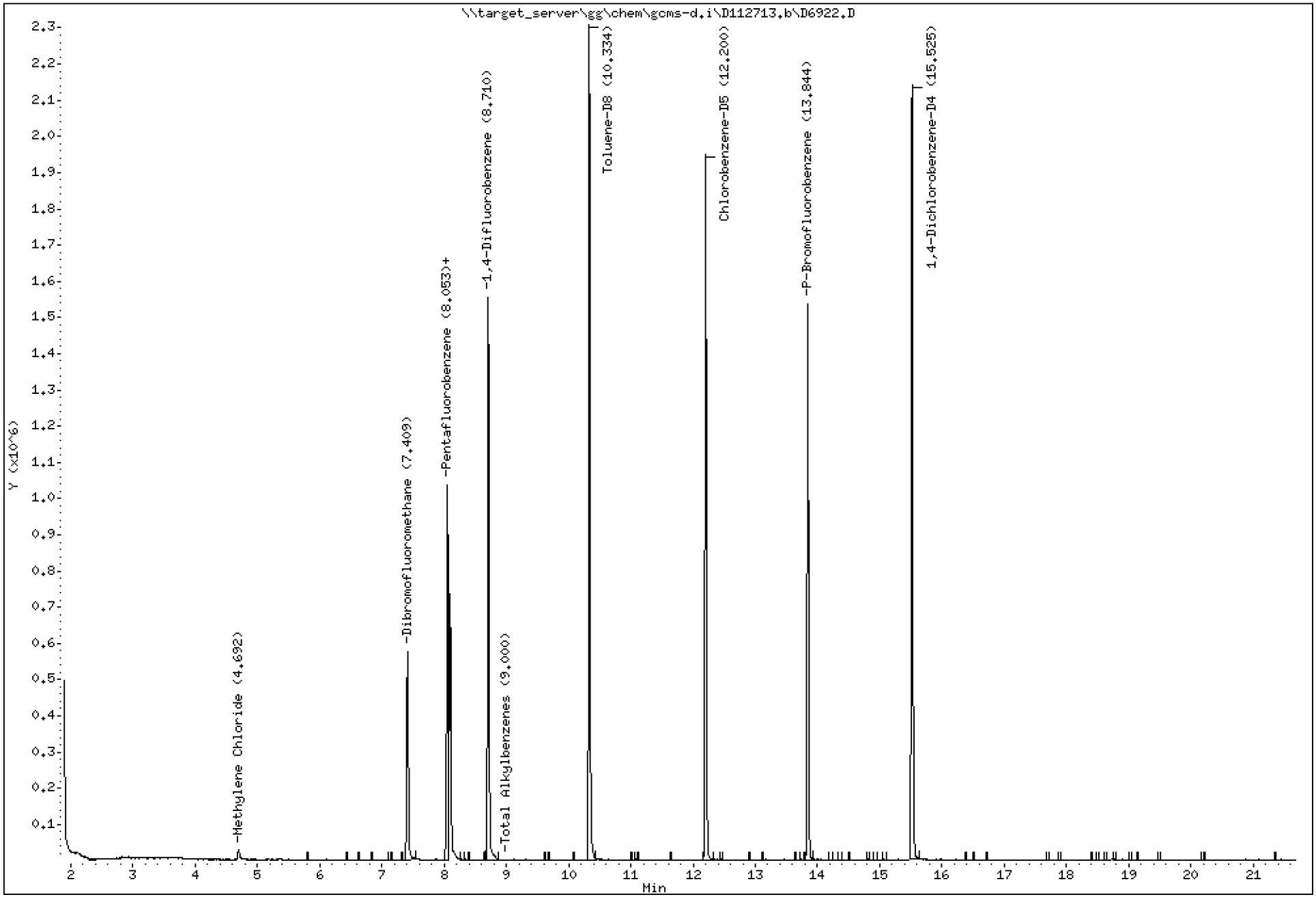
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	14 Methylene Chloride	84	4.692	4.691	(0.583)	14268	1.83843	1.8(a)	
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	326714	49.5720	49.6	
*	42 Pentafluorobenzene	168	8.052	8.052	(1.000)	649087	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	445143	48.5119	48.5	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1085675	50.0000		
$	55 Toluene-D8	98	10.333	10.333	(1.186)	1290198	51.7049	51.7	
*	66 Chlorobenzene-D5	117	12.199	12.199	(1.000)	1035911	50.0000		
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	509138	50.2125	50.2	
*	91 1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	615321	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6922.D
Date : 27-NOV-2013 13:19
Client ID: TB-GW-110813
Instrument: gcms-d.i
Sample Info: SG9180-10



Katahdin Analytical Services 0000133

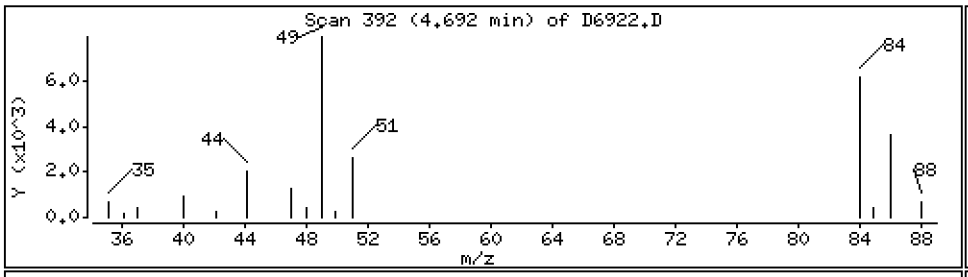
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6922.D

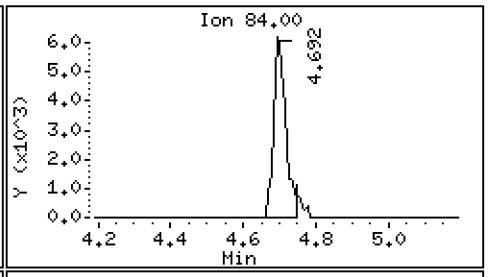
Date : 27-NOV-2013 13:19

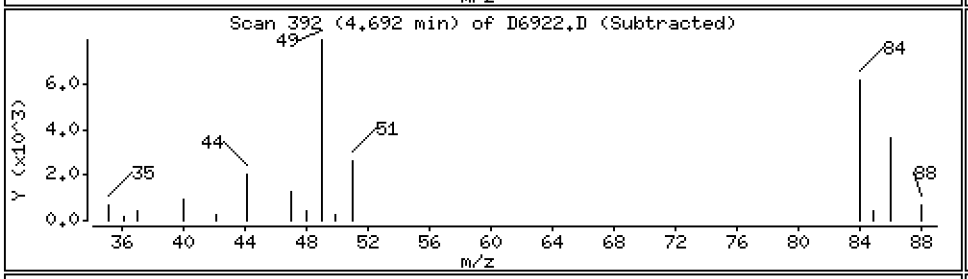
Client ID: TB-GW-110813 Instrument: gcms-d.i

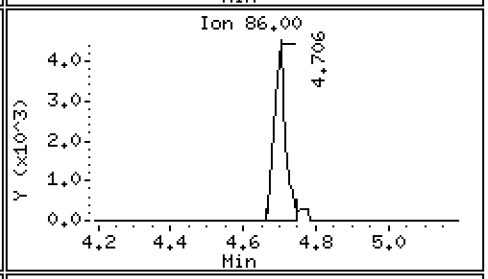
Sample Info: SG9180-10

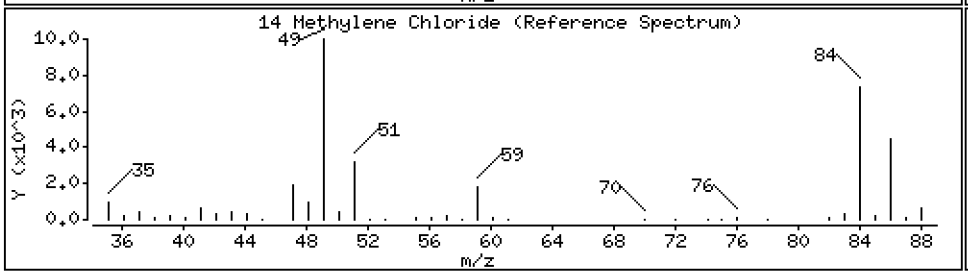
14 Methylene Chloride Concentration: 1.8 ug/l

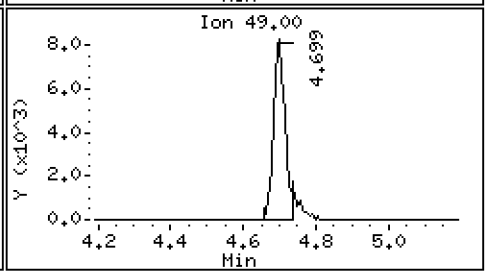












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-11
Client ID: IDW-GW-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: D6932.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	JL	0.61	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	J	0.92	ug/L	1	3	3.0	0.25	1.5
o-Xylene	J	0.92	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		97.4	%					
Toluene-d8		99.0	%					
1,2-Dichloroethane-d4		100.	%					
Dibromofluoromethane		97.3	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6932.D
Report Date: 02-Dec-2013 12:22

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Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6932.D
Lab Smp Id: SG9180-11 Client Smp ID: IDW-GW-112113
Inj Date : 27-NOV-2013 18:48
Operator : REC Inst ID: gcms-d.i
Smp Info : SG9180-11
Misc Info : WG135258,WG134694-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

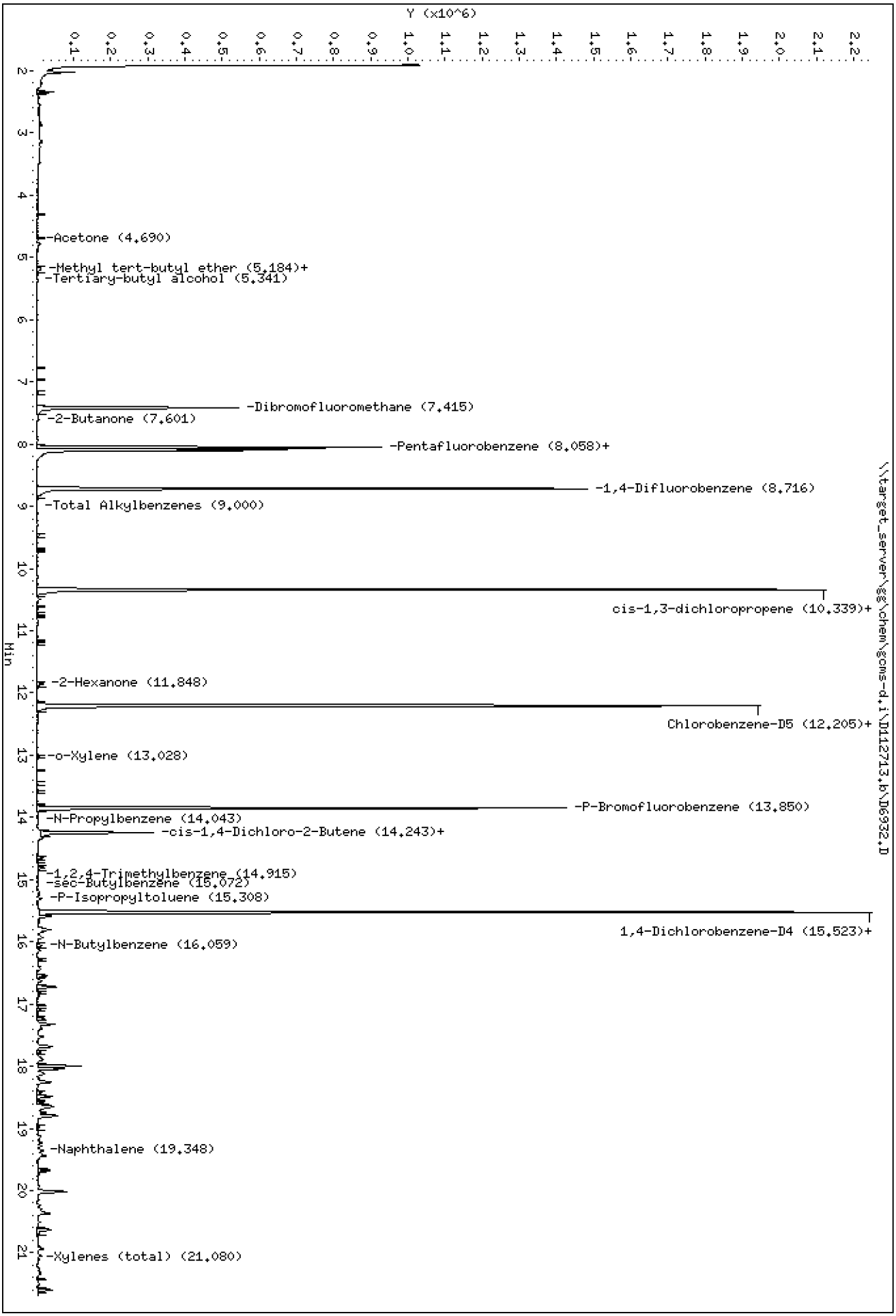
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	8 Tertiary-butyl alcohol	59	5.341	5.342	(0.663)	384	3.96484	4.0(a)	
	15 Acetone	43	4.783	4.770	(0.594)	13527	6.00170	6.0	
	19 Methyl tert-butyl ether	73	5.190	5.170	(0.644)	10854	0.61357	0.61(a)	
	20 Acetonitrile	39	5.198	5.535	(0.645)	1551	9.19836	9.2(a)	
$	37 Dibromofluoromethane	113	7.414	7.408	(0.920)	296172	48.6612	48.7	
	40 2-Butanone	43	7.600	7.573	(0.943)	5454	1.88757	1.9(a)	
*	42 Pentafluorobenzene	168	8.058	8.052	(1.000)	599423	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.093	8.095	(1.004)	425423	50.2042	50.2	
	47 1,2-Dichloroethane	62	8.051	8.180	(0.924)	2528	0.23259	0.23(a)	
*	49 1,4-Difluorobenzene	114	8.715	8.710	(1.000)	1029658	50.0000		
	53 cis-1,3-dichloropropene	75	10.339	10.118	(1.186)	318	0.53070	0.53(a)	
$	55 Toluene-D8	98	10.339	10.333	(1.186)	1171478	49.5013	49.5	
	65 2-Hexanone	43	11.847	11.841	(0.971)	13922	12.6740	12.7	
*	66 Chlorobenzene-D5	117	12.205	12.199	(1.000)	986748	50.0000		
	152 1-Chlorohexane	91	12.269	12.199	(1.005)	3821	0.38546	0.38(a)	
M	70 Xylenes (total)	106				2100	0.92488	0.92(a)	
	72 o-Xylene	106	13.027	13.021	(1.067)	2100	0.92488	0.92(a)	
$	76 P-Bromofluorobenzene	95	13.849	13.843	(1.589)	468280	48.6955	48.7	
	77 cis-1,4-Dichloro-2-Butene	53	14.243	13.936	(0.918)	12078	4.26015	4.3	
	80 N-Propylbenzene	91	14.042	14.044	(0.905)	1579	1.80826	1.8	
	81 1,1,2,2-Tetrachloroethane	83	14.243	14.129	(0.918)	32415	2.92262	2.9	
	82 1,3,5-Trimethylbenzene	105	14.335	14.330	(0.924)	5691	1.88811	1.9	
	88 1,2,4-Trimethylbenzene	105	14.915	14.916	(0.961)	2048	1.94881	1.9	
	89 P-Isopropyltoluene	119	15.308	15.309	(0.986)	3837	2.24645	2.2	

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6932.D
Report Date: 02-Dec-2013 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
*	91 1,4-Dichlorobenzene-D4	152	15.522	15.517	(1.000)	617177	50.0000		
	93 N-Butylbenzene	91	15.973	15.974	(1.029)	1056	2.14097	2.1	
	94 sec-Butylbenzene	105	15.072	15.080	(0.971)	1158	1.90736	1.9	
	100 1,2,3-Trimethylbenzene	105	15.594	15.588	(1.005)	20184	0.68097	0.68(a)	
	101 Naphthalene	128	19.348	19.328	(1.246)	3749	2.95043	3.0	
M	153 Total Alkylbenzenes	100				15369	11.9400	11.9	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Date : 27-NOV-2013 18:48
Client ID: IDW-GW-112113
Sample Info: SG9180-11

Instrument: gcms-d.i

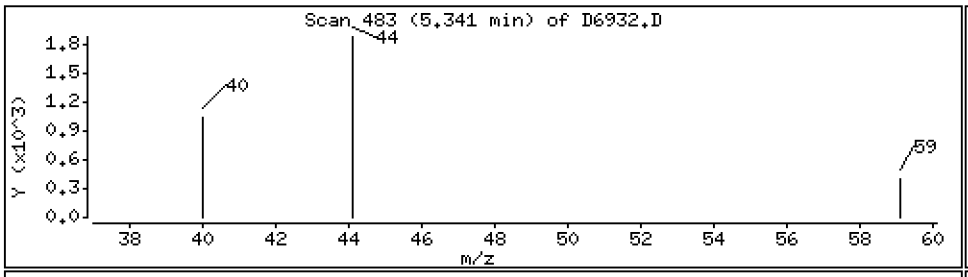
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6932.D

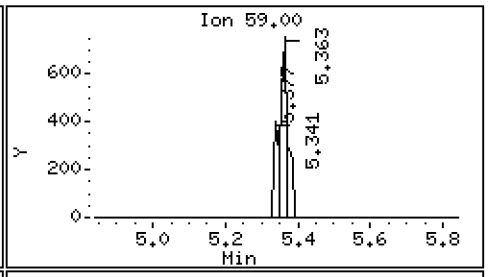
Date : 27-NOV-2013 18:48

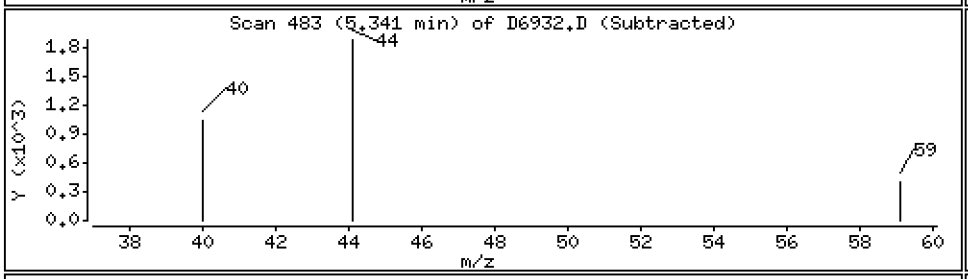
Client ID: IDW-GW-112113 Instrument: gcms-d.i

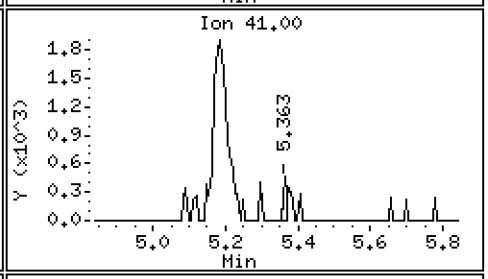
Sample Info: SG9180-11

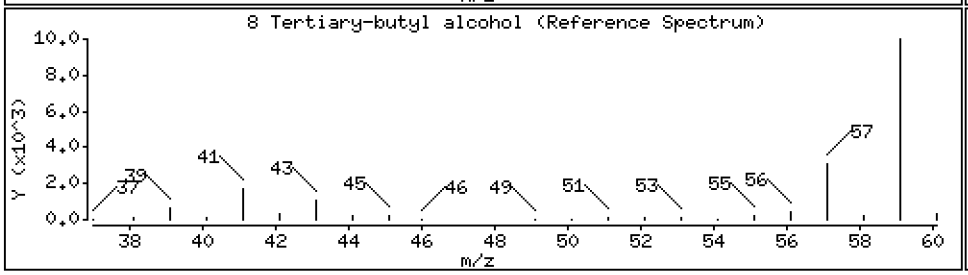
8 Tertiary-butyl alcohol Concentration: 4.0 ug/l

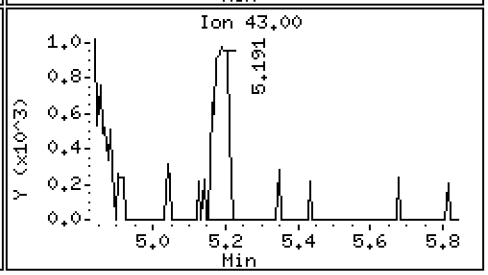




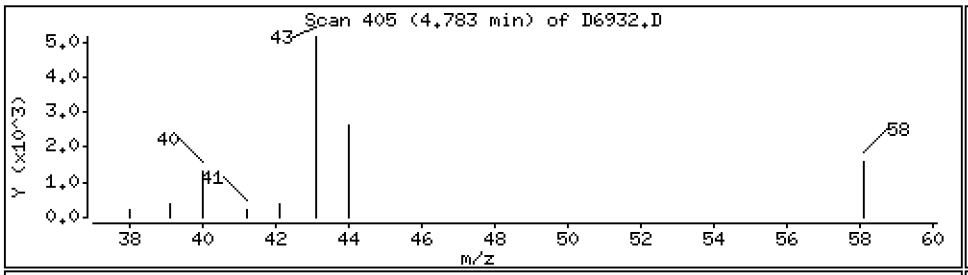


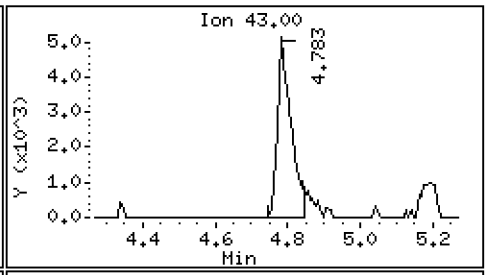


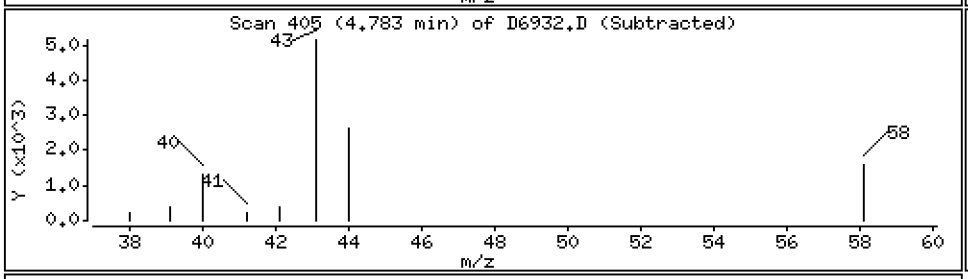


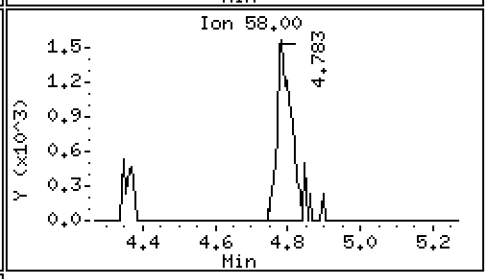


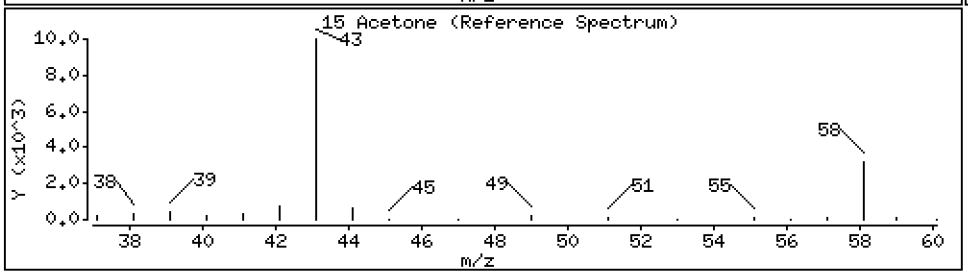
15 Acetone Concentration: 6.0 ug/l











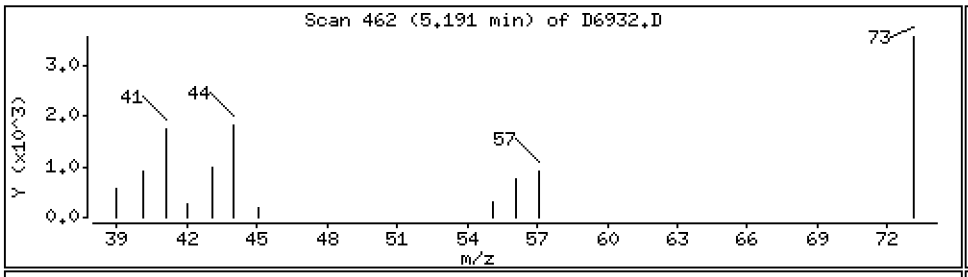
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6932.D

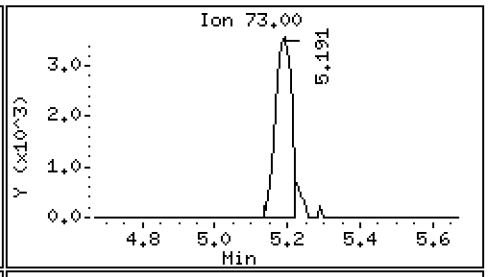
Date : 27-NOV-2013 18:48

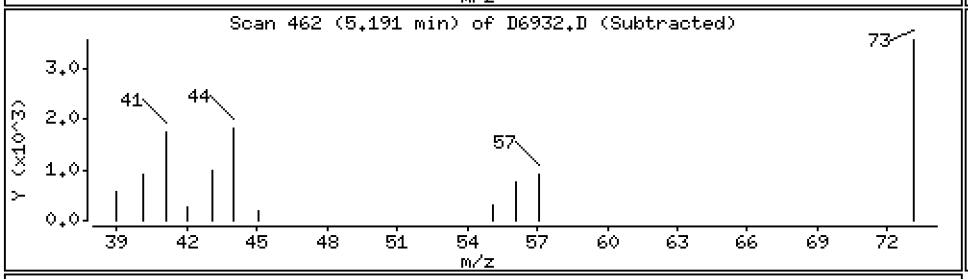
Client ID: IDW-GW-112113 Instrument: gcms-d.i

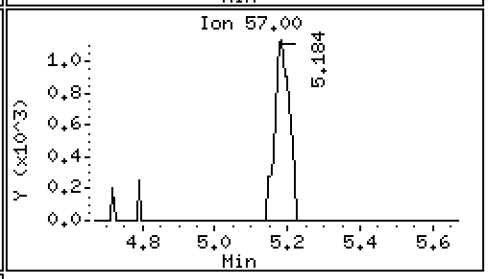
Sample Info: SG9180-11

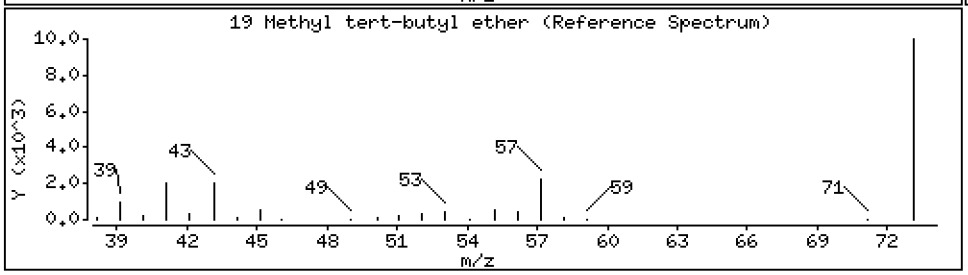
19 Methyl tert-butyl ether Concentration: 0.61 ug/l



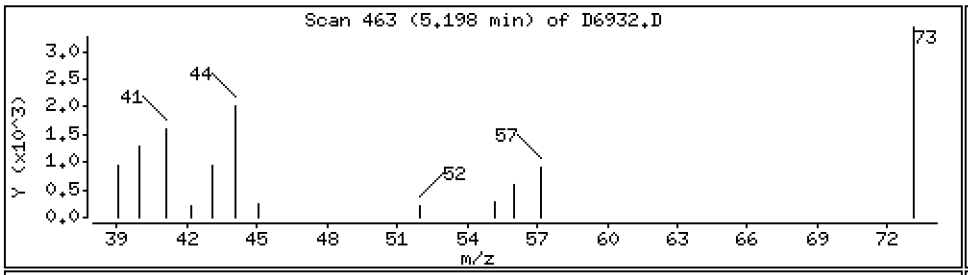


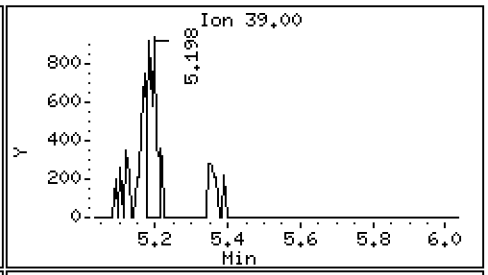


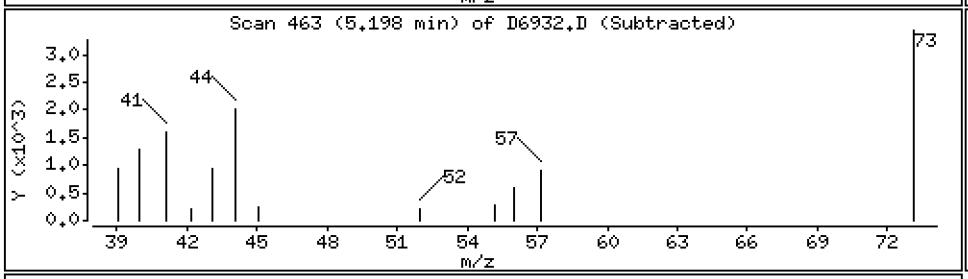


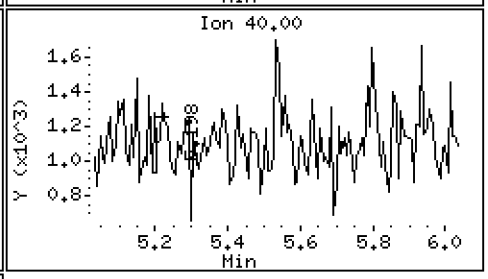


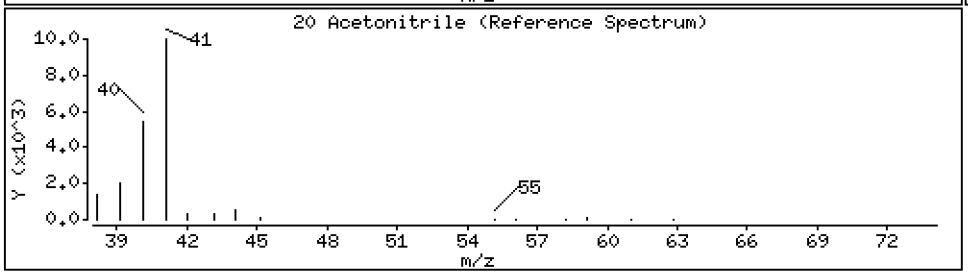
20 Acetonitrile Concentration: 9.2 ug/l











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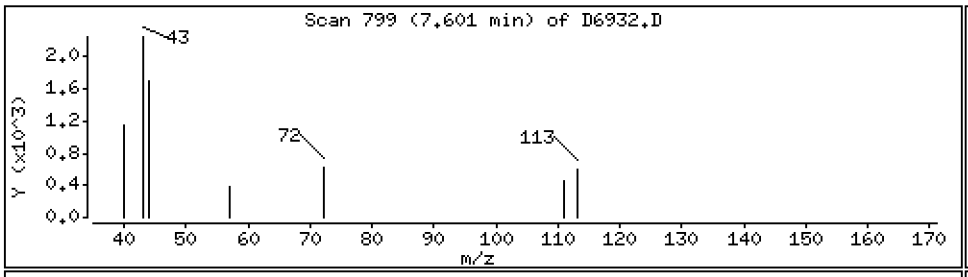
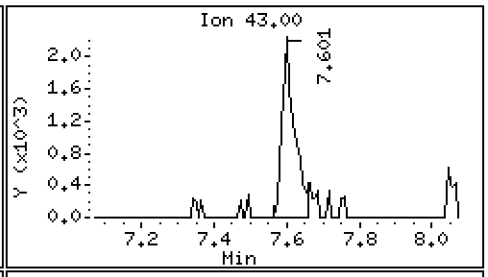
Date : 27-NOV-2013 18:48

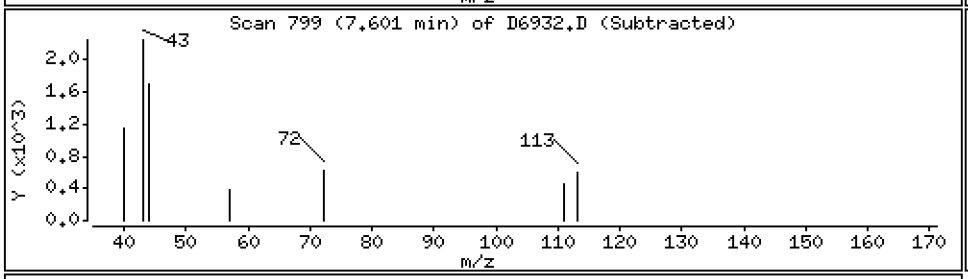
Client ID: IDW-GW-112113 Instrument: gcms-d.i

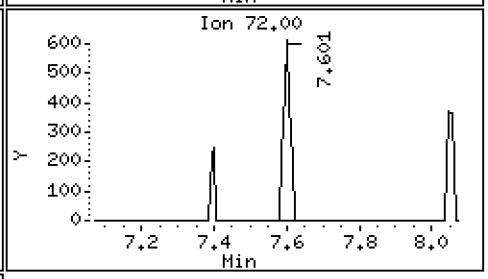
Sample Info: SG9180-11

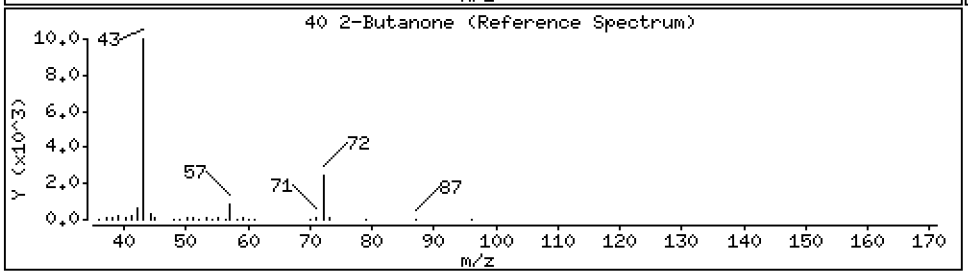
40 2-Butanone Concentration: 1.9 ug/l



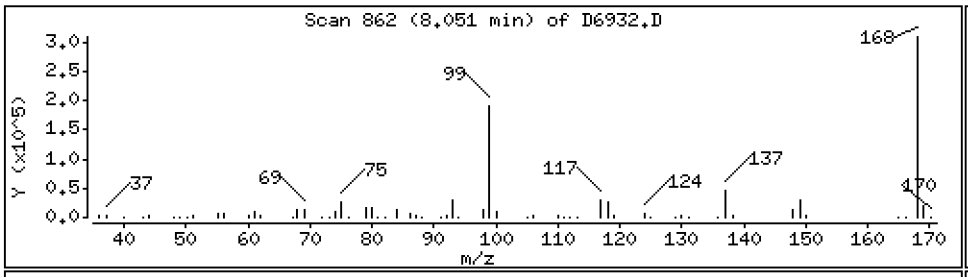


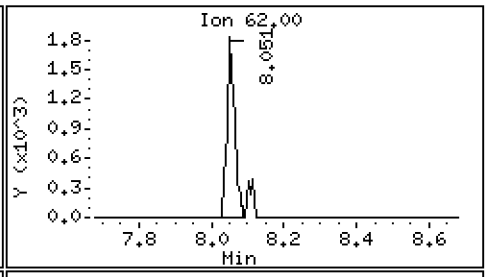


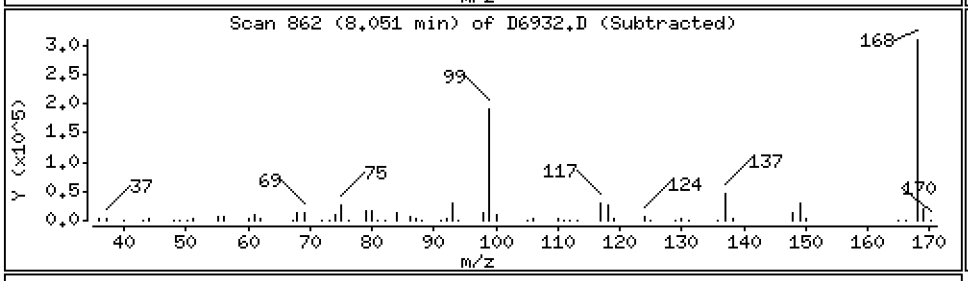


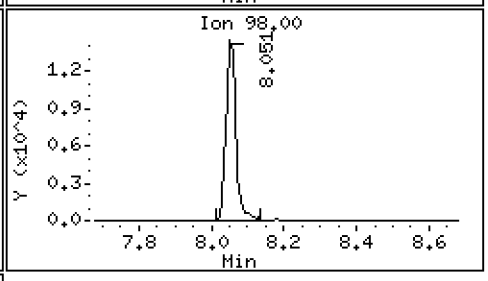


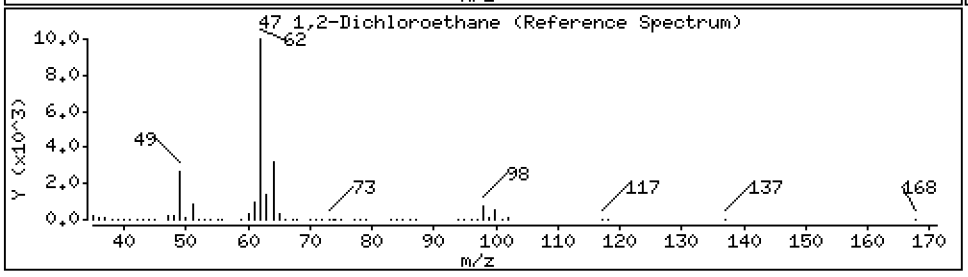
47 1,2-Dichloroethane Concentration: 0.23 ug/l











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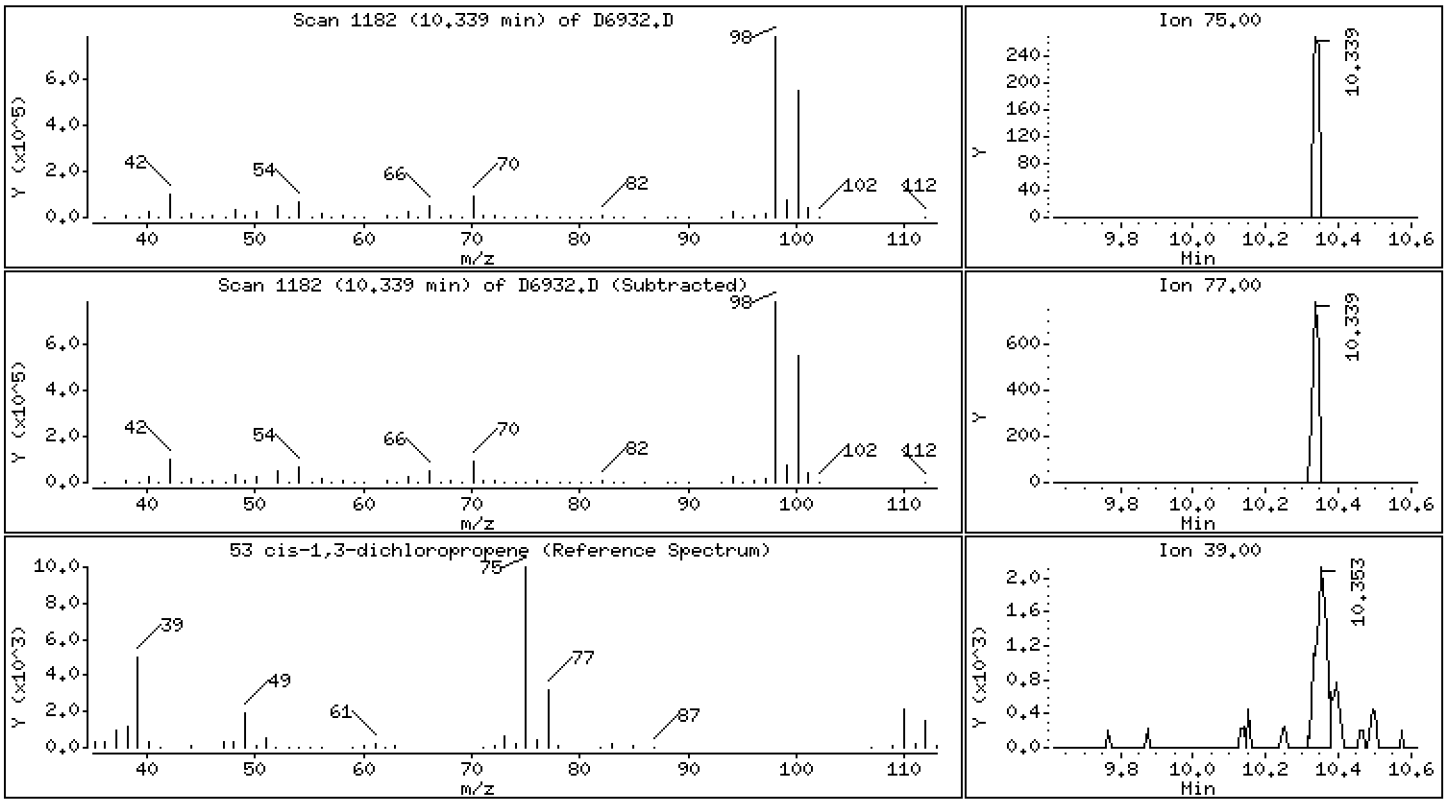
Date : 27-NOV-2013 18:48

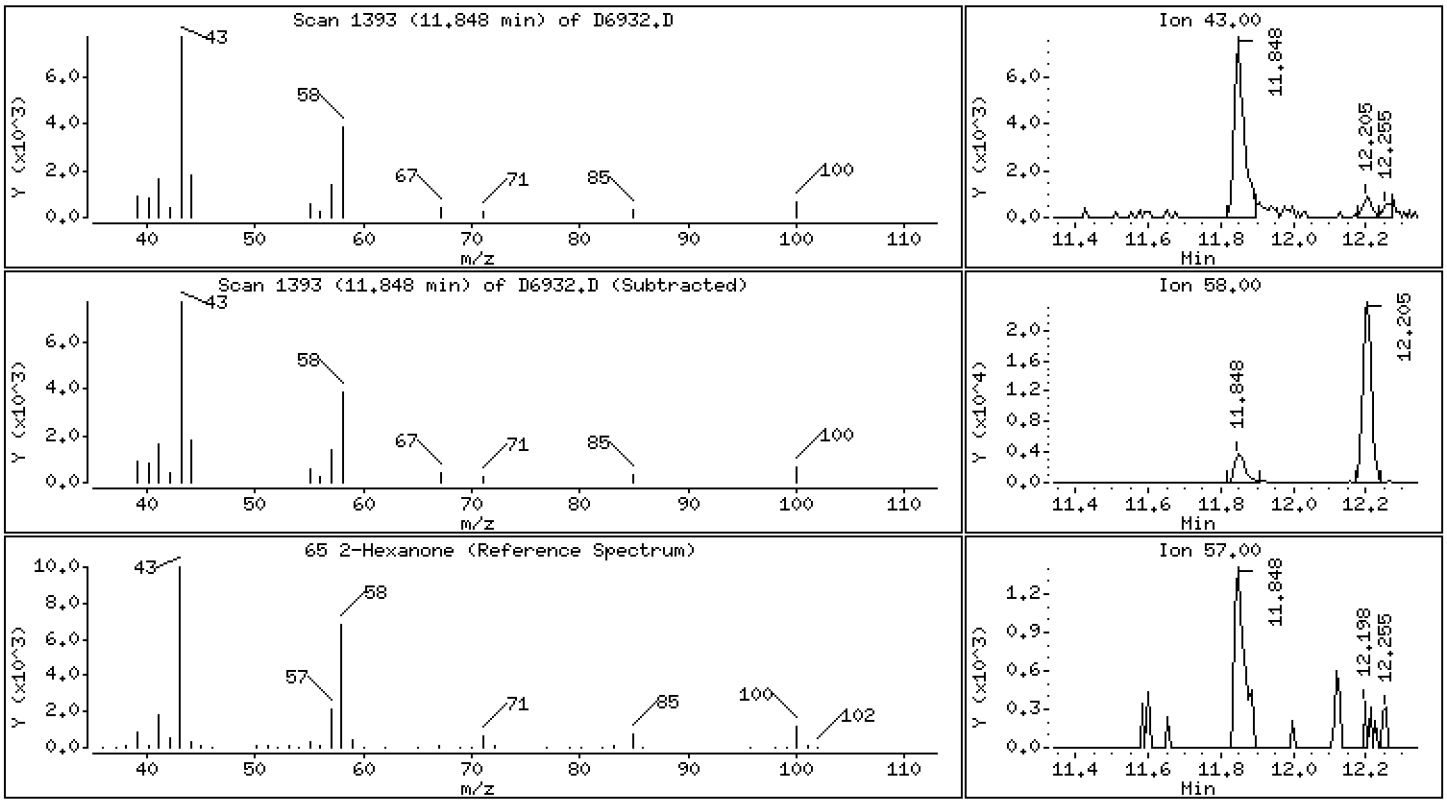
Client ID: IDW-GW-112113 Instrument: gcms-d.i

Sample Info: SG9180-11

53 cis-1,3-dichloropropene Concentration: 0.53 ug/l



65 2-Hexanone Concentration: 12.7 ug/l



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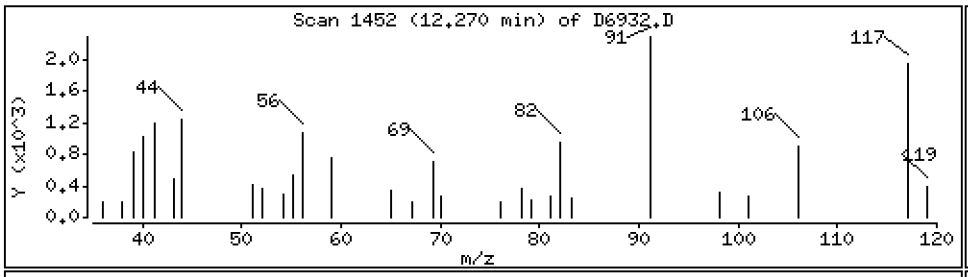
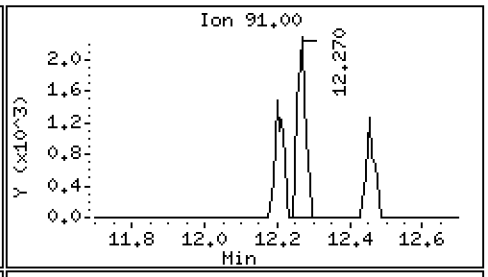
Date : 27-NOV-2013 18:48

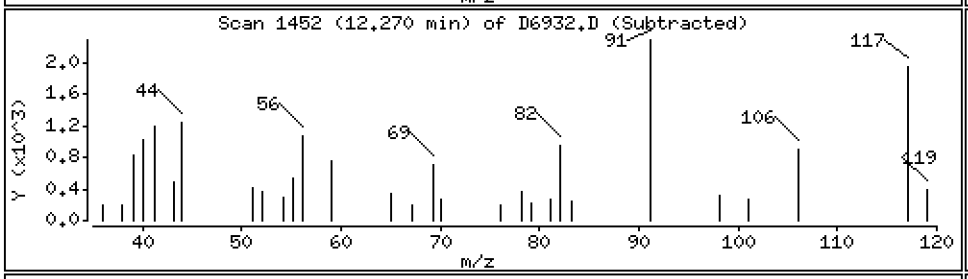
Client ID: IDW-GW-112113 Instrument: gcms-d.i

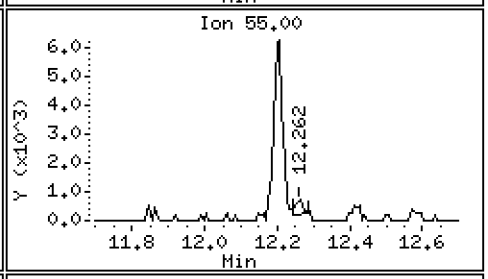
Sample Info: SG9180-11

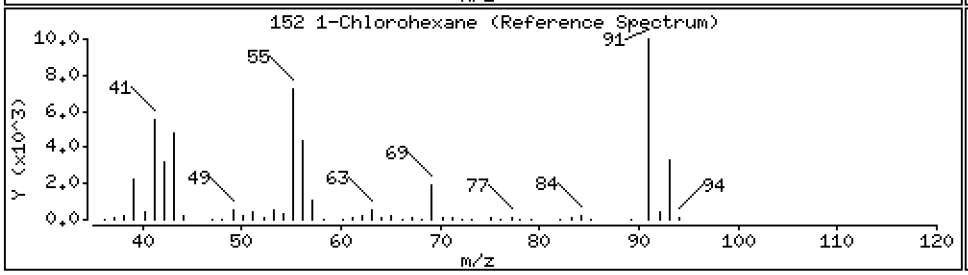
152 1-Chlorohexane Concentration: 0.38 ug/l

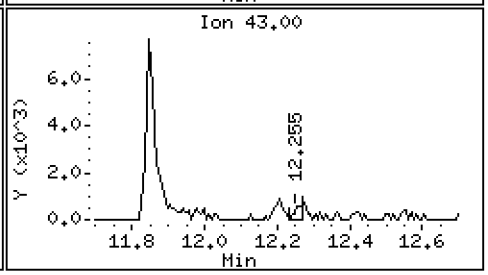




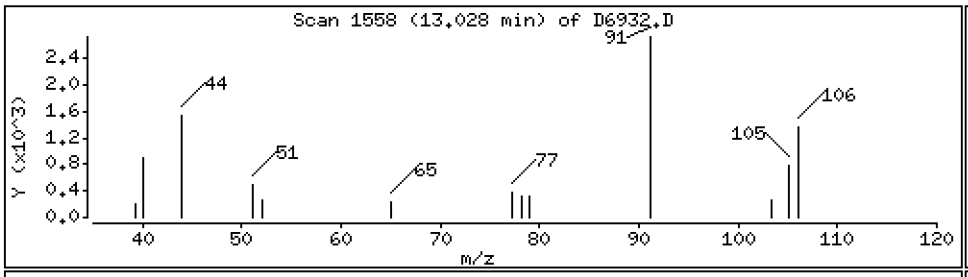


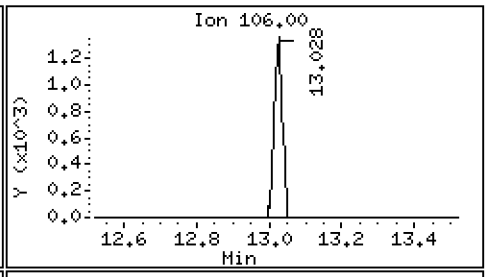


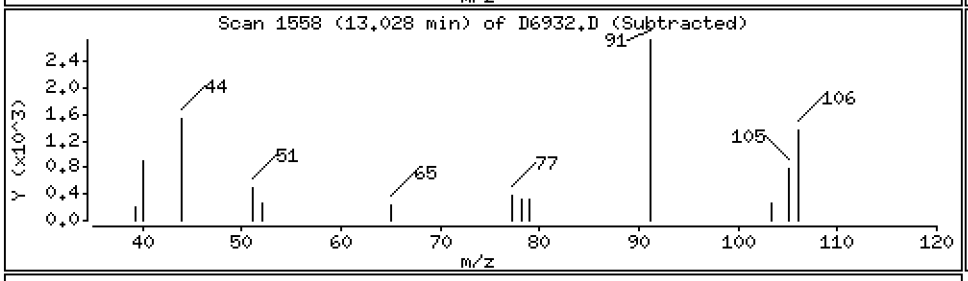


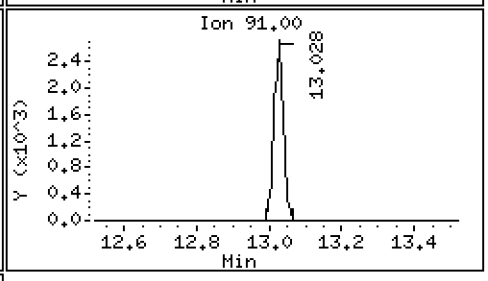


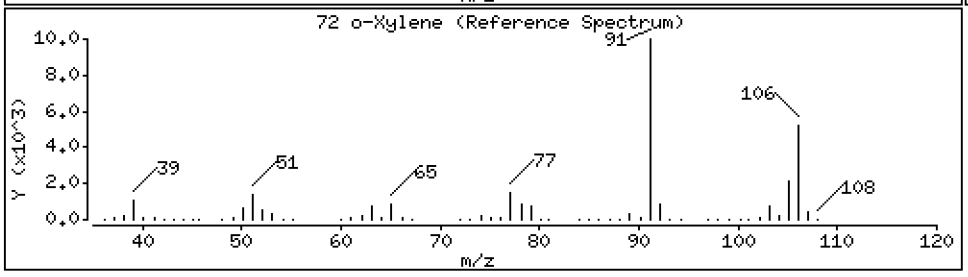
72 o-Xylene Concentration: 0.92 ug/l











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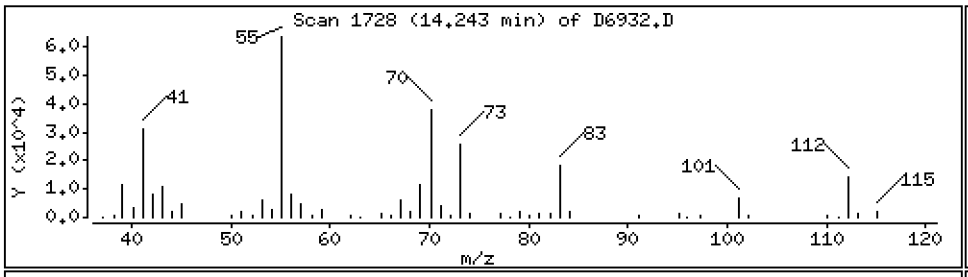
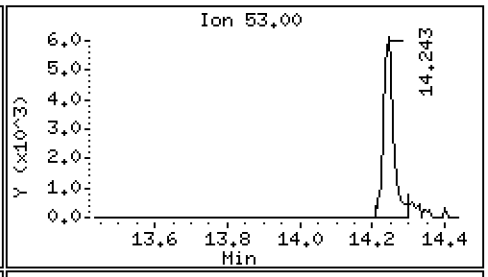
Date : 27-NOV-2013 18:48

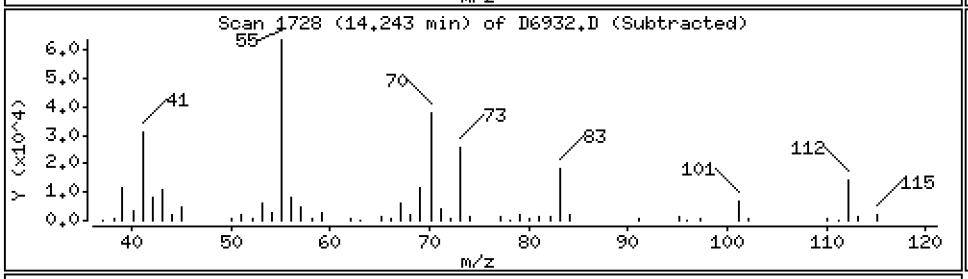
Client ID: IDW-GW-112113 Instrument: gcms-d.i

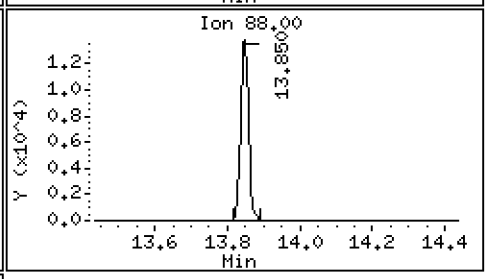
Sample Info: SG9180-11

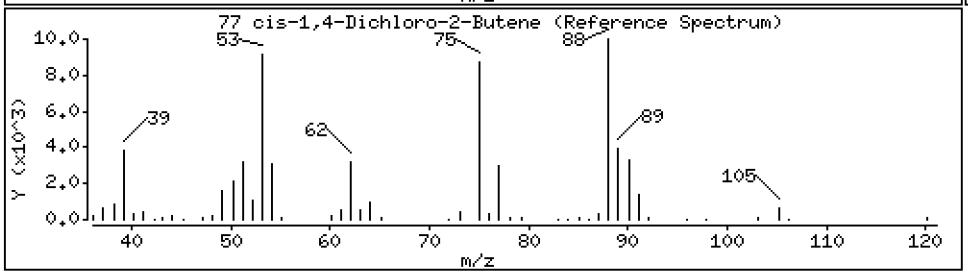
77 cis-1,4-Dichloro-2-Butene Concentration: 4.3 ug/l



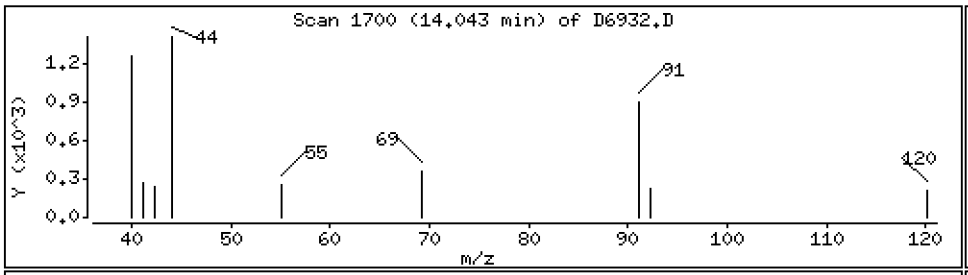


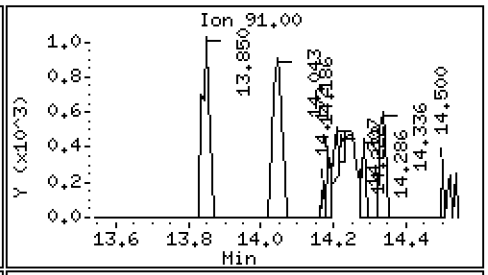


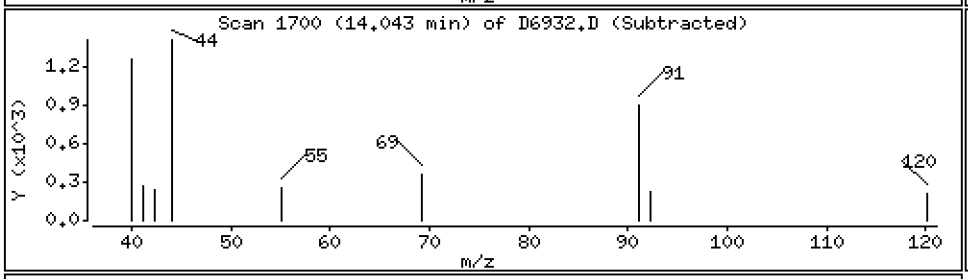


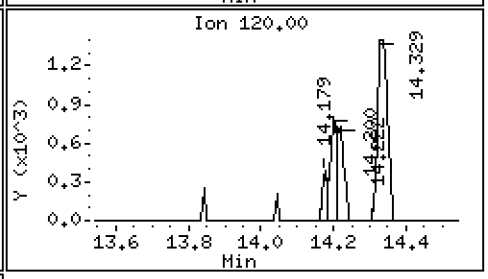


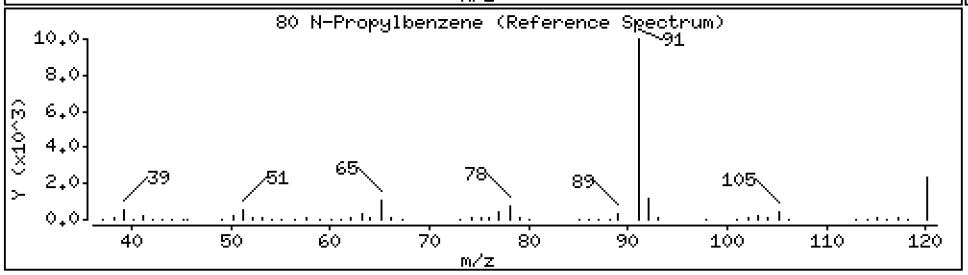
80 N-Propylbenzene Concentration: 1.8 ug/l











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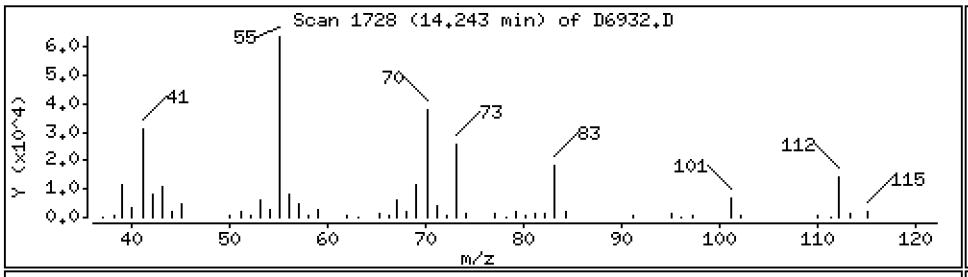
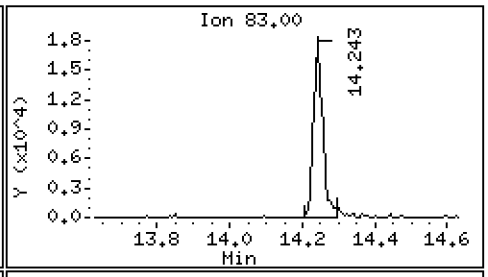
Date : 27-NOV-2013 18:48

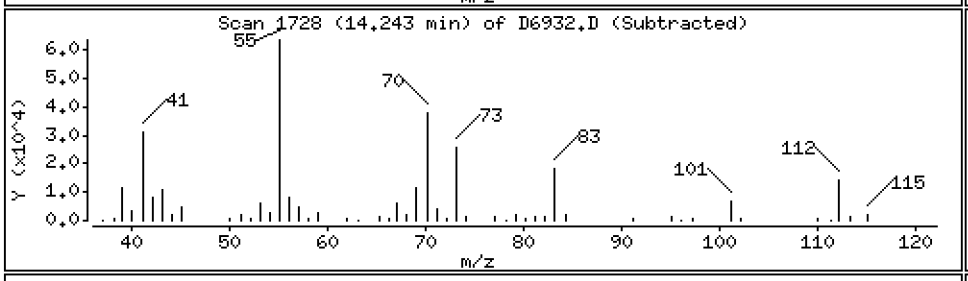
Client ID: IDW-GW-112113 Instrument: gcms-d.i

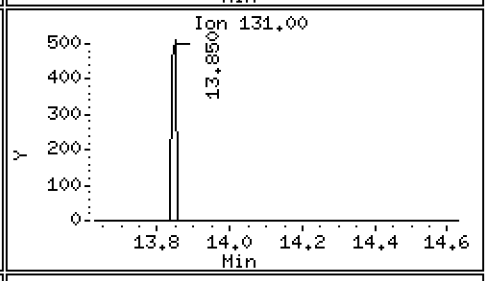
Sample Info: SG9180-11

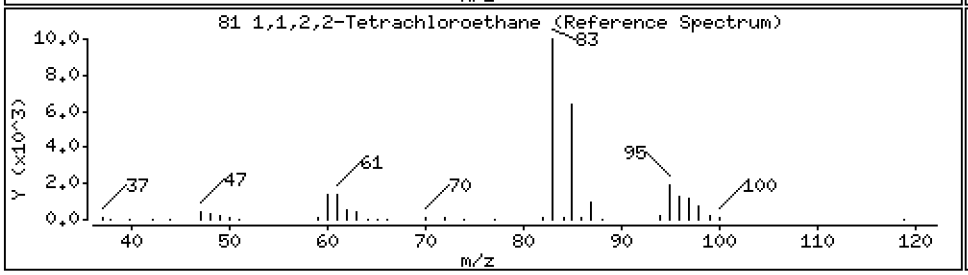
81 1,1,2,2-Tetrachloroethane Concentration: 2.9 ug/l

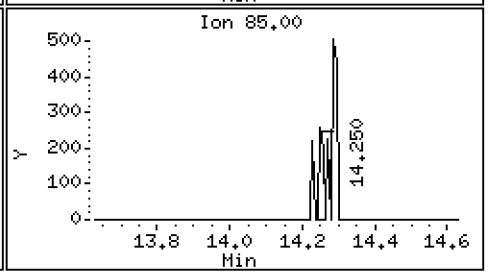




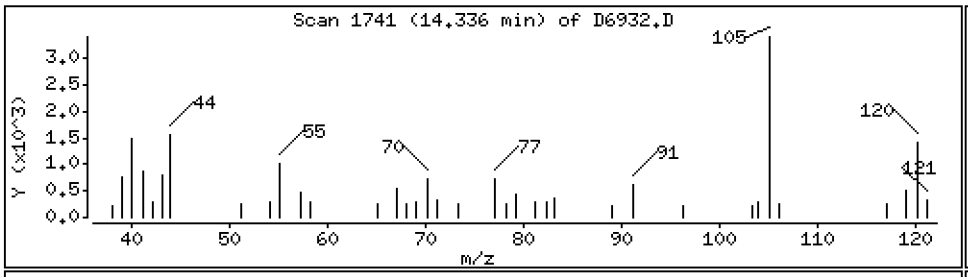


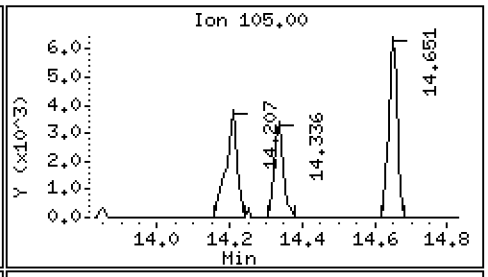


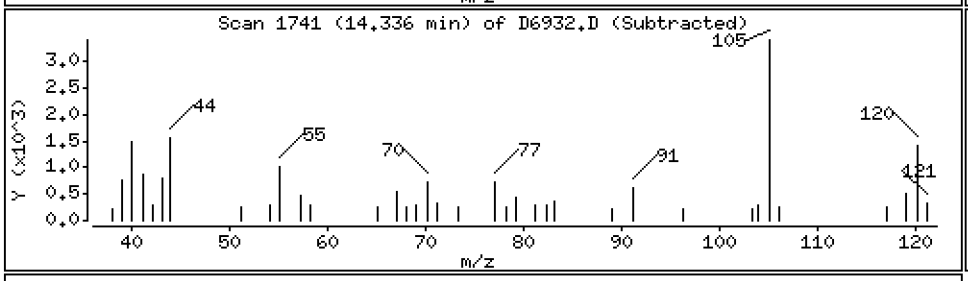


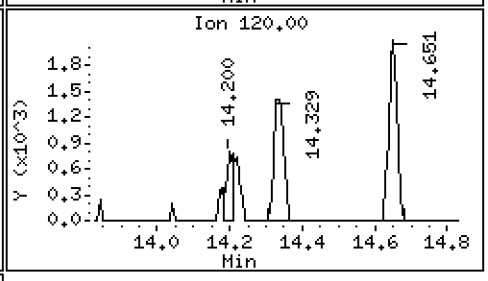


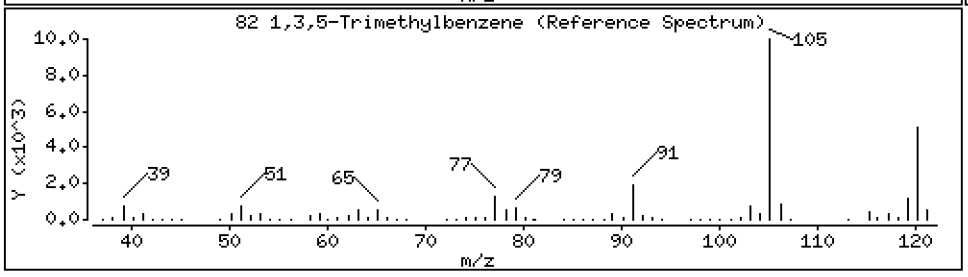
82 1,3,5-Trimethylbenzene Concentration: 1.9 ug/l











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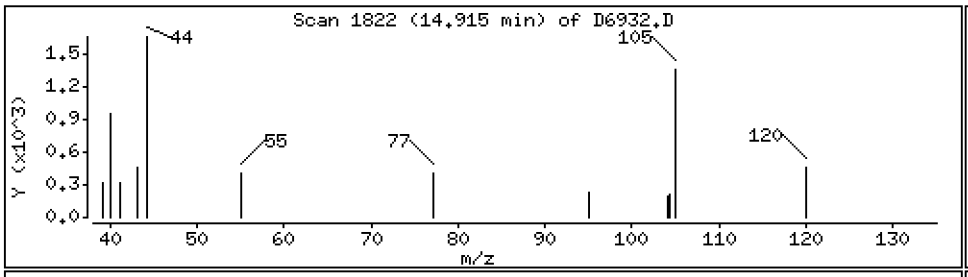
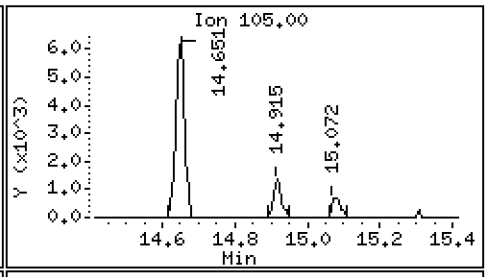
Date : 27-NOV-2013 18:48

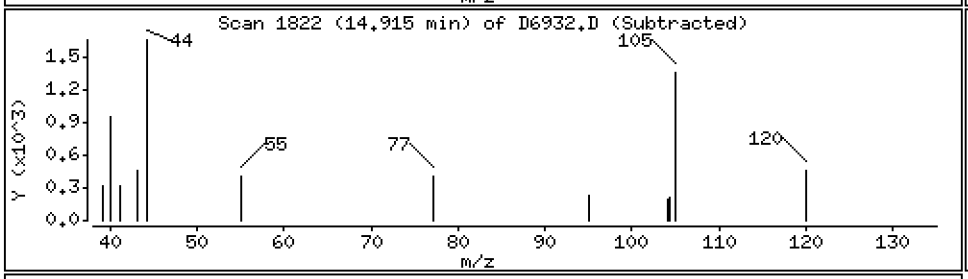
Client ID: IDW-GW-112113 Instrument: gcms-d.i

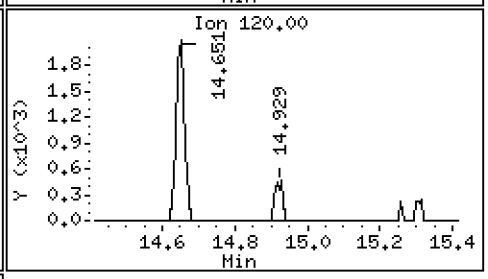
Sample Info: SG9180-11

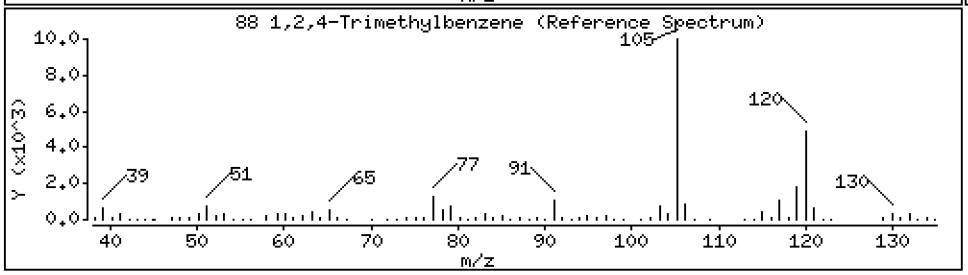
88 1,2,4-Trimethylbenzene Concentration: 1.9 ug/l



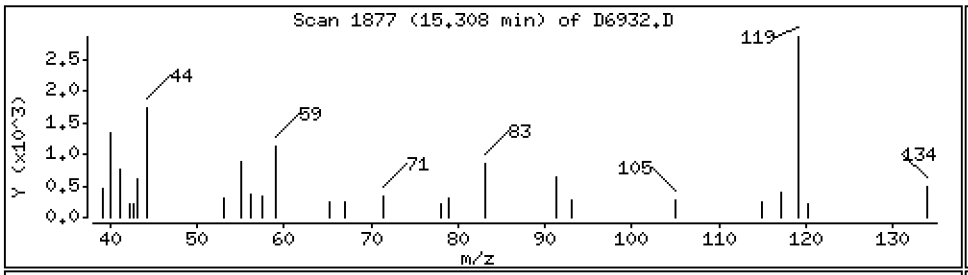


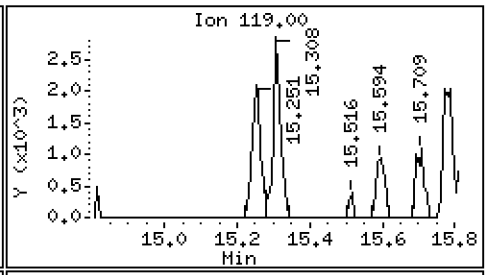


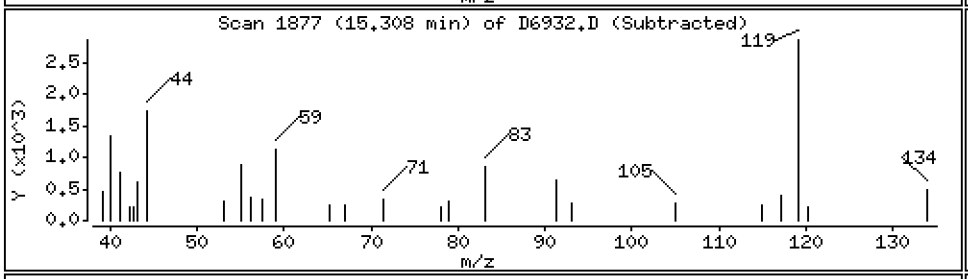


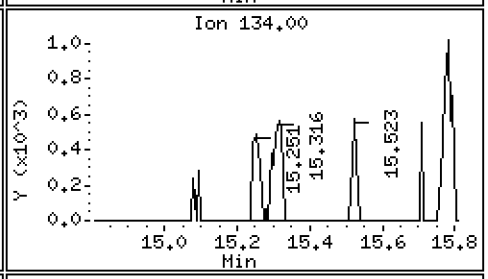


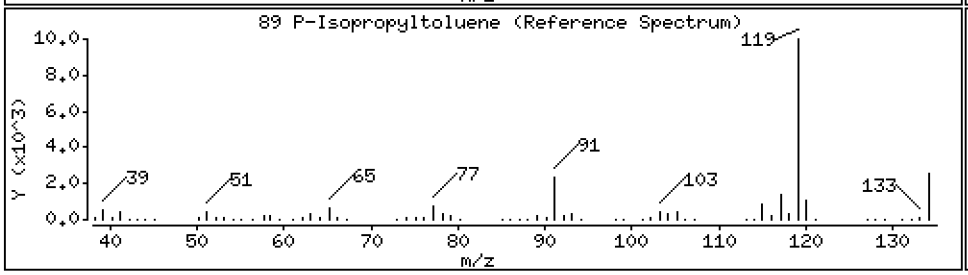
89 P-Isopropyltoluene Concentration: 2.2 ug/l

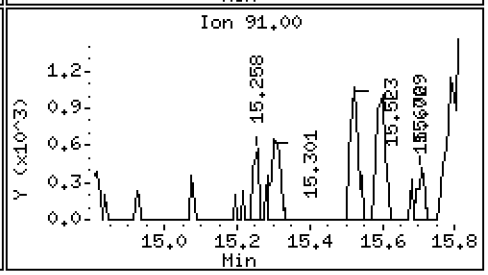












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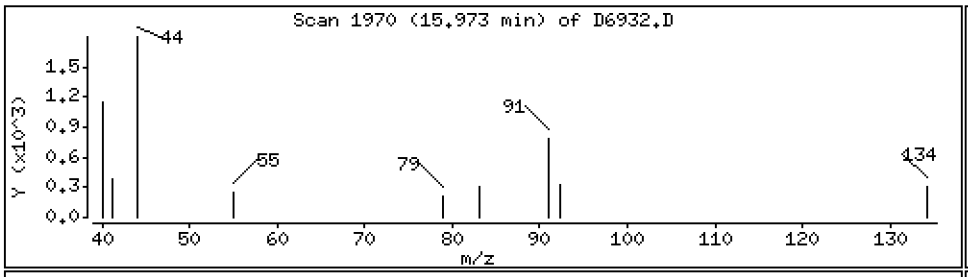
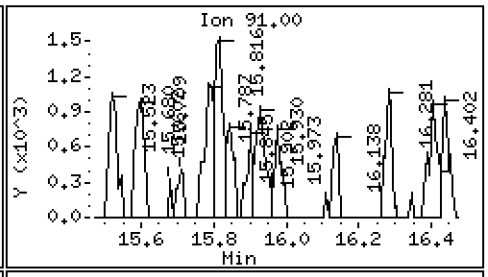
Date : 27-NOV-2013 18:48

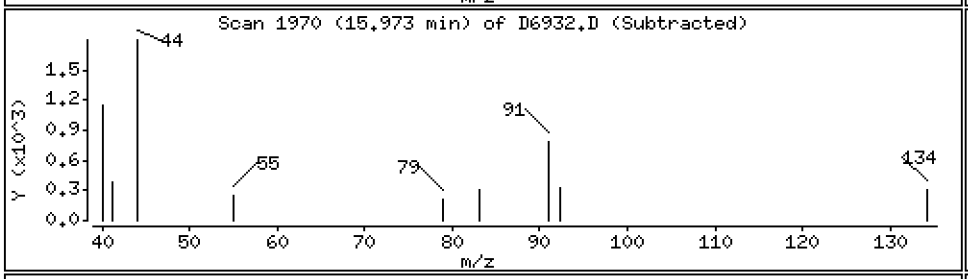
Client ID: IDW-GW-112113 Instrument: gcms-d.i

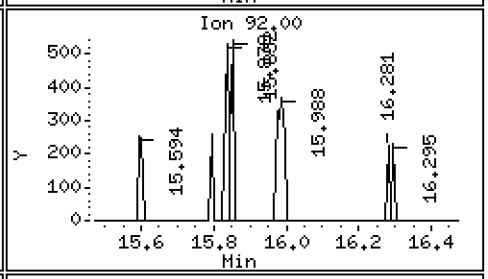
Sample Info: SG9180-11

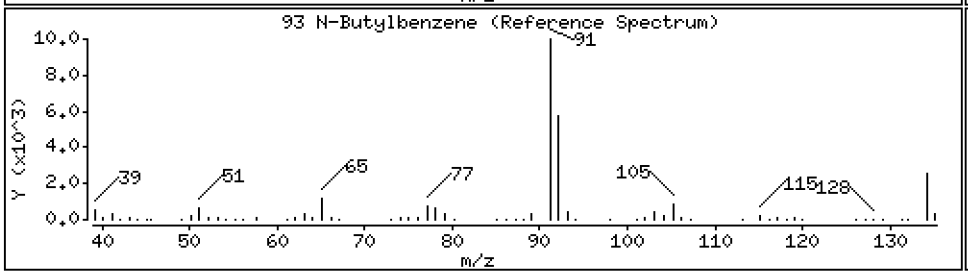
93 N-Butylbenzene Concentration: 2.1 ug/l

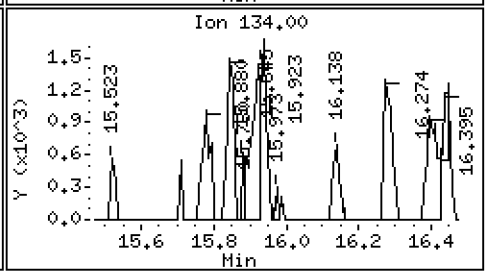




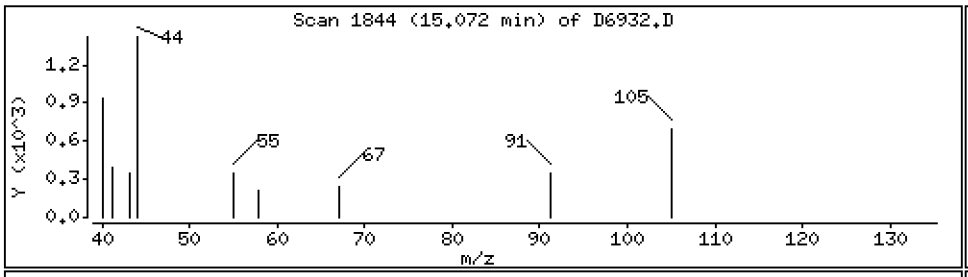


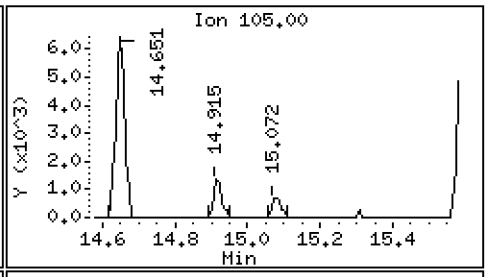


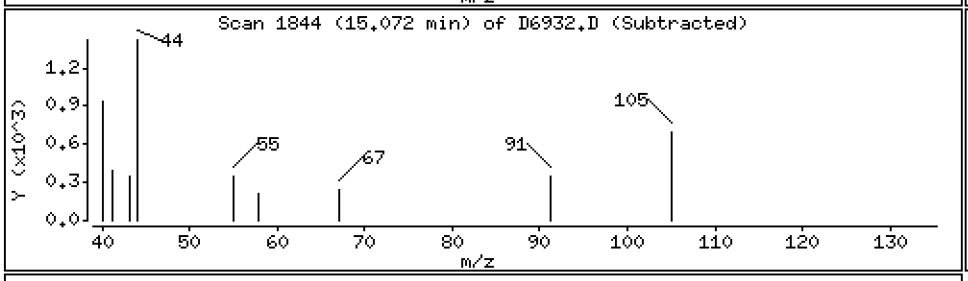


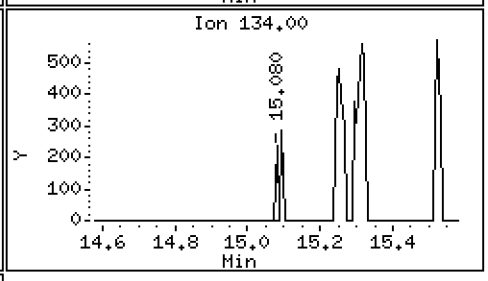


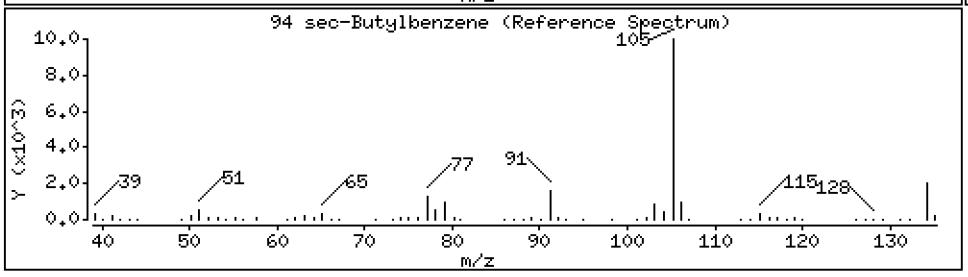
94 sec-Butylbenzene Concentration: 1.9 ug/l











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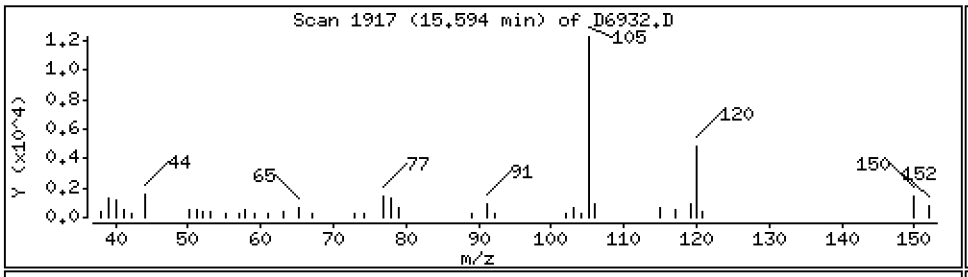
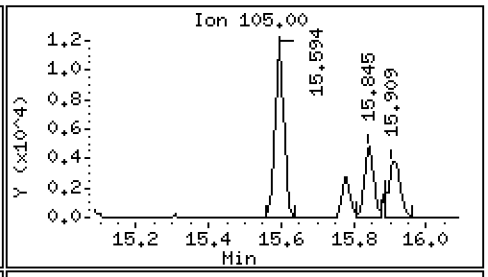
Date : 27-NOV-2013 18:48

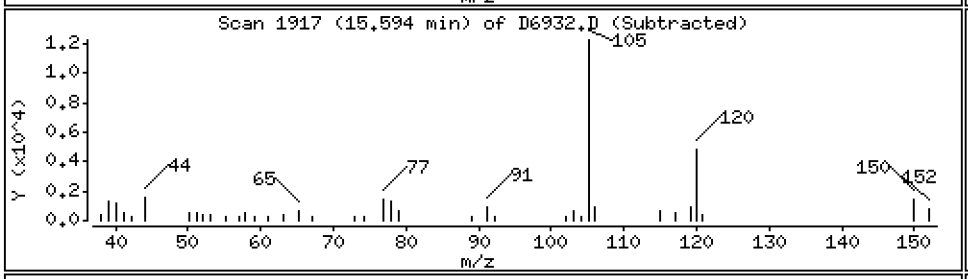
Client ID: IDW-GW-112113 Instrument: gcms-d.i

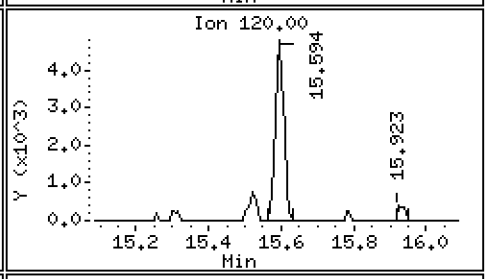
Sample Info: SG9180-11

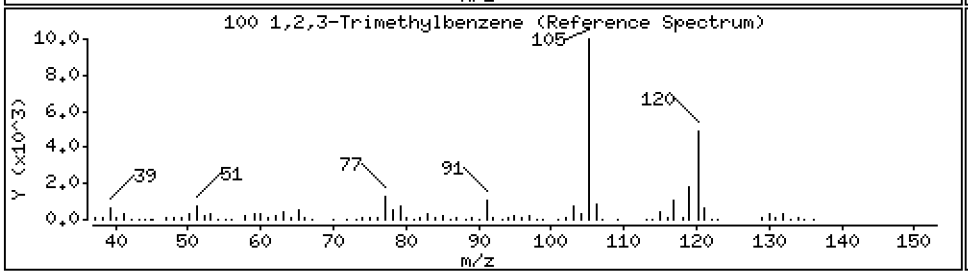
100 1,2,3-Trimethylbenzene Concentration: 0.68 ug/l

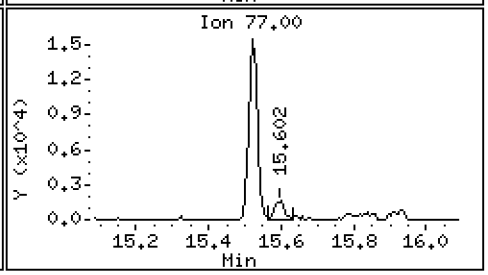




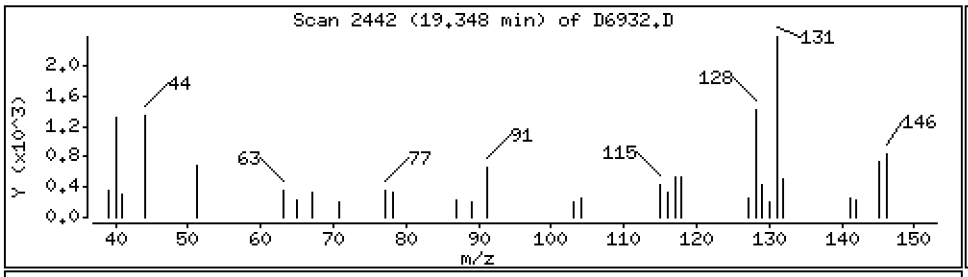


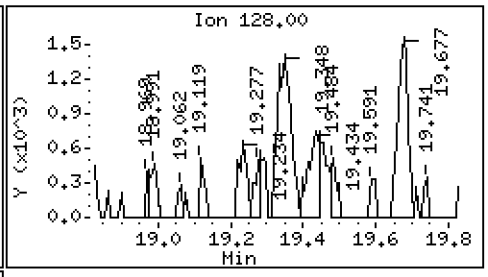


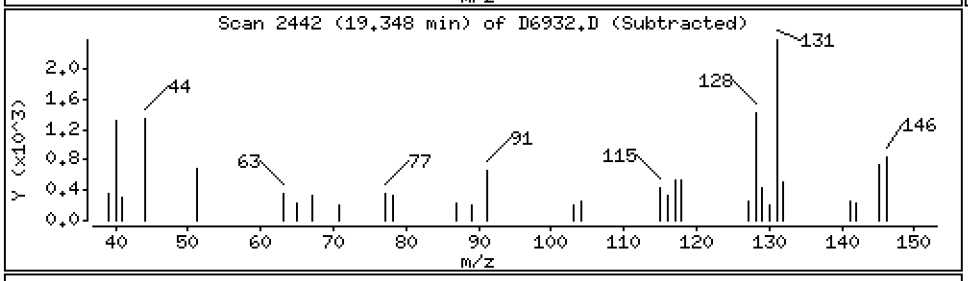


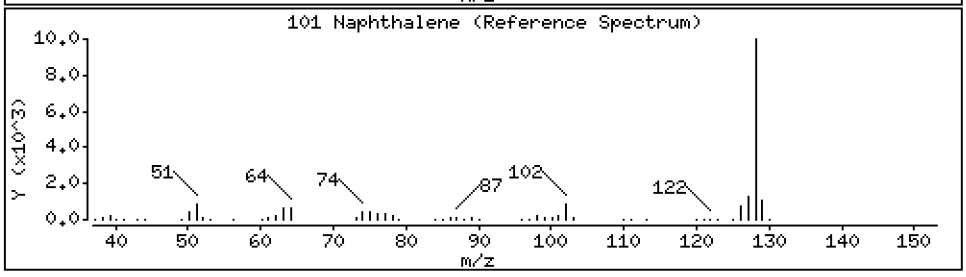


101 Naphthalene Concentration: 3.0 ug/l









Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE40-1
Project : NAVSTA Newport CTO WE40-04
Instrument ID: GCMS-C
Lab File IDs : C4233.D C4232.D C4231.D C4230.D C4229.D C4228.D
Column ID:
Calibration Date(s): 13-NOV-13 10:01
13-NOV-13 12:38

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	1.0000	5.0000	20.0000	50.0000	100.0000	200.0000	New	b	m1	m2	%RSD	%RSD	
Methyl tert-butyl ether	0.95673	1.04672	1.10024	1.04102	1.04971	1.01849	AVG		1.03548		4.53874	15.00000	O
Benzene	0.99317	0.97340	0.94424	0.92084	0.88207	0.81334	AVG		0.92118		7.13512	15.00000	O
Toluene	0.57572	0.61440	0.59578	0.57044	0.55823	0.52348	AVG		0.57301		5.47283	15.00000	O
Ethylbenzene	0.31492	0.36773	0.36565	0.35332	0.35285	0.34241	AVG		0.34948		5.52619	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.37569	0.43350	0.43006	0.41753	0.41041	0.36841	AVG		0.40593		6.80815	15.00000	O
o-Xylene	0.30192	0.38784	0.40974	0.39944	0.40377	0.38545	AVG		0.38136		10.49173	15.00000	O
Dibromofluoromethane	0.41794	0.37582	0.37898	0.37307	0.37314	0.36916	AVG		0.38135		4.77766	15.00000	
1,2-Dichloroethane-D4	0.43248	0.45301	0.40979	0.40099	0.39138	0.39187	AVG		0.41325		5.97523	15.00000	
Toluene-D8	0.76855	0.78181	0.76237	0.73287	0.70071	0.63674	AVG		0.73051		7.44290	15.00000	
P-Bromofluorobenzene	0.37211	0.34427	0.34774	0.33301	0.32681	0.32312	AVG		0.34118		5.25760	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Report Date: 15-Nov-2013 10:02

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02236
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG134365-7 Client Smp ID: WG134365-LCS
Level: LOW Operator: REC
Data Type: MS DATA SampleType: IND CHECK
SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Misc Info: WG134365,WG134365-4,SG8848-1

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1	Dichlorodifluorome	50.0	34.3	68.58*	80-120
	2	Chloromethane	50.0	40.2	80.47	80-120
	3	Vinyl chloride	50.0	43.6	87.12	80-120
	4	Bromomethane	50.0	43.4	86.73	80-120
	5	Chloroethane	50.0	31.5	63.07*	80-120
	6	Trichlorofluoromet	50.0	48.6	97.31	80-120
	7	Diethyl Ether	50.0	50.2	100.43	80-120
	8	Tertiary-butyl alc	250	250	99.91	80-120
	9	1,1-Dichloroethene	50.0	61.2	122.41*	80-120
	10	Carbon Disulfide	50.0	57.9	115.84	80-120
	11	Freon-113	50.0	53.1	106.20	80-120
	12	Iodomethane	50.0	56.9	113.89	80-120
	13	Acrolein	250	254	101.45	80-120
	14	Methylene Chloride	50.0	56.9	113.82	80-120
	15	Acetone	50.0	71.0	141.92*	80-120
	16	Isobutyl Alcohol	1000	1090	109.36	80-120
	17	trans-1,2-Dichloro	50.0	53.3	106.56	80-120
	18	Allyl Chloride	50.0	51.4	102.75	80-120
	19	Methyl tert-butyl	100	108	107.73	80-120
	20	Acetonitrile	500	538	107.61	80-120
	21	Di-isopropyl ether	50.0	52.6	105.27	80-120
	22	Chloroprene	50.0	52.7	105.38	80-120
	23	Propionitrile	500	526	105.12	80-120
	24	Methacrylonitrile	500	508	101.65	80-120
	25	1,1-Dichloroethane	50.0	54.3	108.63	80-120
	26	Acrylonitrile	250	261	104.25	80-120
	27	Ethyl tertiary-but	50.0	52.8	105.67	80-120
	28	Vinyl Acetate	50.0	67.5	135.05*	80-120
	29	cis-1,2-Dichloroet	50.0	52.8	105.54	80-120
M	30	1,2-Dichloroethyle	100	106	106.05	80-120
	31	Methyl Methacrylat	50.0	53.6	107.22	80-120
	32	2,2-Dichloropropan	50.0	54.5	109.02	80-120
	33	Bromochloromethane	50.0	52.6	105.28	80-120
	34	Chloroform	50.0	53.2	106.34	80-120
	35	Carbon Tetrachlori	50.0	55.7	111.50	80-120
	36	Tetrahydrofuran	50.0	52.5	105.07	80-120
	38	1,1,1-Trichloroeth	50.0	54.0	108.09	80-120
	39	1,1-Dichloropropen	50.0	53.9	107.87	80-120
	40	2-Butanone	50.0	60.6	121.17*	80-120
	41	Benzene	50.0	52.7	105.34	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Report Date: 15-Nov-2013 10:02

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	63.9	127.73*	80-120
	44	Ethyl Methacrylate	50.0	53.0	105.93	80-120
	46	Tertiary-amyl meth	50.0	51.7	103.50	80-120
	47	1,2-Dichloroethane	50.0	53.3	106.62	80-120
	48	Trichloroethene	50.0	52.4	104.78	80-120
	50	Dibromomethane	50.0	48.5	96.97	80-120
	51	1,2-Dichloropropan	50.0	54.9	109.85	80-120
	52	Bromodichlorometha	50.0	54.4	108.79	80-120
	53	cis-1,3-dichloropr	50.0	50.9	101.85	80-120
	54	1,4-Dioxane	1000	817	81.66	80-120
	56	2-Chloroethylvinyl	50.0	51.3	102.56	80-120
	57	Toluene	50.0	51.4	102.89	80-120
	58	4-methyl-2-pentano	50.0	55.8	111.57	80-120
	59	Tetrachloroethene	50.0	49.9	99.85	80-120
	60	trans-1,3-Dichloro	50.0	53.9	107.87	80-120
	61	1,1,2-Trichloroeth	50.0	50.1	100.25	80-120
	62	Dibromochlorometha	50.0	52.9	105.90	80-120
	63	1,3-Dichloropropan	50.0	51.7	103.42	80-120
	64	1,2-Dibromoethane	50.0	50.7	101.42	80-120
	65	2-Hexanone	50.0	58.0	116.01	80-120
	67	Chlorobenzene	50.0	53.6	107.23	80-120
	152	1-Chlorohexane	50.0	51.8	103.65	80-120
	68	Ethylbenzene	50.0	51.0	102.04	80-120
	69	1,1,1,2-Tetrachlor	50.0	50.8	101.62	80-120
M	70	Xylenes (total)	150	164	109.65	80-120
	71	m+p-Xylenes	100	108	107.79	80-120
	72	o-Xylene	50.0	56.7	113.37	80-120
	73	Styrene	50.0	53.8	107.65	80-120
	74	Bromoform	50.0	50.7	101.40	80-120
	75	Isopropylbenzene	50.0	56.8	113.66	80-120
	77	cis-1,4-Dichloro-2	50.0	51.5	102.97	80-120
	78	trans-1,4-Dichloro	50.0	53.7	107.47	80-120
	79	Bromobenzene	50.0	50.1	100.20	80-120
	80	N-Propylbenzene	50.0	57.6	115.31	80-120
	81	1,1,2,2-Tetrachlor	50.0	50.2	100.44	80-120
	82	1,3,5-Trimethylben	50.0	51.8	103.61	80-120
	83	2-Chlorotoluene	50.0	56.2	112.45	80-120
	84	1,2,3-Trichloropro	50.0	49.1	98.26	80-120
	85	4-Chlorotoluene	50.0	56.4	112.75	80-120
	86	tert-Butylbenzene	50.0	55.4	110.81	80-120
	87	Pentachloroethane	50.0	50.5	101.07	80-120
	88	1,2,4-Trimethylben	50.0	53.8	107.68	80-120
	89	P-Isopropyltoluene	50.0	56.9	113.88	80-120
	90	1,3-Dichlorobenzen	50.0	52.8	105.53	80-120
	92	1,4-Dichlorobenzen	50.0	48.8	97.63	80-120
	93	N-Butylbenzene	50.0	53.8	107.59	80-120
	94	sec-Butylbenzene	50.0	57.5	115.00	80-120
	95	1,2-Dichlorobenzen	50.0	53.9	107.84	80-120
	96	1,2-Dibromo-3-Chlo	50.0	50.6	101.31	80-120
	97	1,3,5-Trichloroben	50.0	48.3	96.53	80-120
	98	Hexachlorobutadien	50.0	45.1	90.17	80-120
	99	1,2,4-Trichloroben	50.0	43.8	87.72	80-120
	100	1,2,3-Trimethylben	50.0	51.4	102.90	80-120
	101	Naphthalene	50.0	42.3	84.66	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Report Date: 15-Nov-2013 10:02

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	36.4	72.70*	80-120
103 Methyl Acetate	50.0	45.6	91.11	80-120
104 Methylcyclohexane	50.0	55.6	111.18	80-120
M 153 Total Alkylbenzene	350	387	110.56	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	49.1	98.14	68-128
$ 45 1,2-Dichloroethane	50.0	47.3	94.63	67-135
$ 55 Toluene-D8	50.0	48.6	97.22	65-128
$ 76 P-Bromofluorobenze	50.0	45.4	90.77	56-133

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Report Date: 14-Nov-2013 07:11

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Lab Smp Id: WG134365-6 Client Smp ID: Initial Calibration
Inj Date : 13-NOV-2013 10:01
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-6
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 10:01 Cal File: C4228.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.051	2.051	(0.251)	1892979	200.000	199	
2	Chloromethane	50	2.301	2.301	(0.281)	2117459	200.000	164	
3	Vinyl chloride	62	2.401	2.401	(0.293)	1766334	200.000	184	
4	Bromomethane	94	2.816	2.816	(0.344)	957689	200.000	191	
5	Chloroethane	64	2.973	2.980	(0.363)	459028	200.000	200(A)	
6	Trichlorofluoromethane	101	3.159	3.166	(0.386)	2154849	200.000	216(A)	
7	Diethyl Ether	59	3.602	3.602	(0.440)	1119790	200.000	192	
8	Tertiary-butyl alcohol	59	5.497	5.490	(0.672)	665480	1000.00	1010(A)	
9	1,1-Dichloroethene	96	3.881	3.881	(0.474)	967585	200.000	193	
10	Carbon Disulfide	76	3.910	3.917	(0.478)	3426371	200.000	177	
11	Freon-113	151	3.945	3.946	(0.482)	682416	200.000	215(A)	
12	Iodomethane	142	4.088	4.089	(0.500)	1112674	200.000	230(A)	
13	Acrolein	56	4.410	4.410	(0.539)	1210621	1000.00	1010(A)	
14	Methylene Chloride	84	4.811	4.811	(0.588)	1481697	200.000	199	
15	Acetone	43	4.903	4.904	(0.599)	2308352	1000.00	946	
16	Isobutyl Alcohol	43	8.386	8.379	(1.024)	1217922	4000.00	4470(A)	
17	trans-1,2-Dichloroethene	96	5.082	5.090	(0.621)	1252288	200.000	190	
18	Allyl Chloride	41	4.625	4.632	(0.565)	2353199	200.000	189	
19	Methyl tert-butyl ether	73	5.290	5.290	(0.646)	6794918	400.000	393	
20	Acetonitrile	39	5.697	5.697	(0.696)	461478	2000.00	1930	
21	Di-isopropyl ether	45	5.940	5.940	(0.726)	4749042	200.000	192	
22	Chloroprene	53	6.069	6.069	(0.741)	2030967	200.000	198	
23	Propionitrile	54	8.114	8.106	(0.991)	2110345	2000.00	1850	
24	Methacrylonitrile	41	8.142	8.128	(0.995)	6785601	2000.00	1990	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Report Date: 14-Nov-2013 07:11

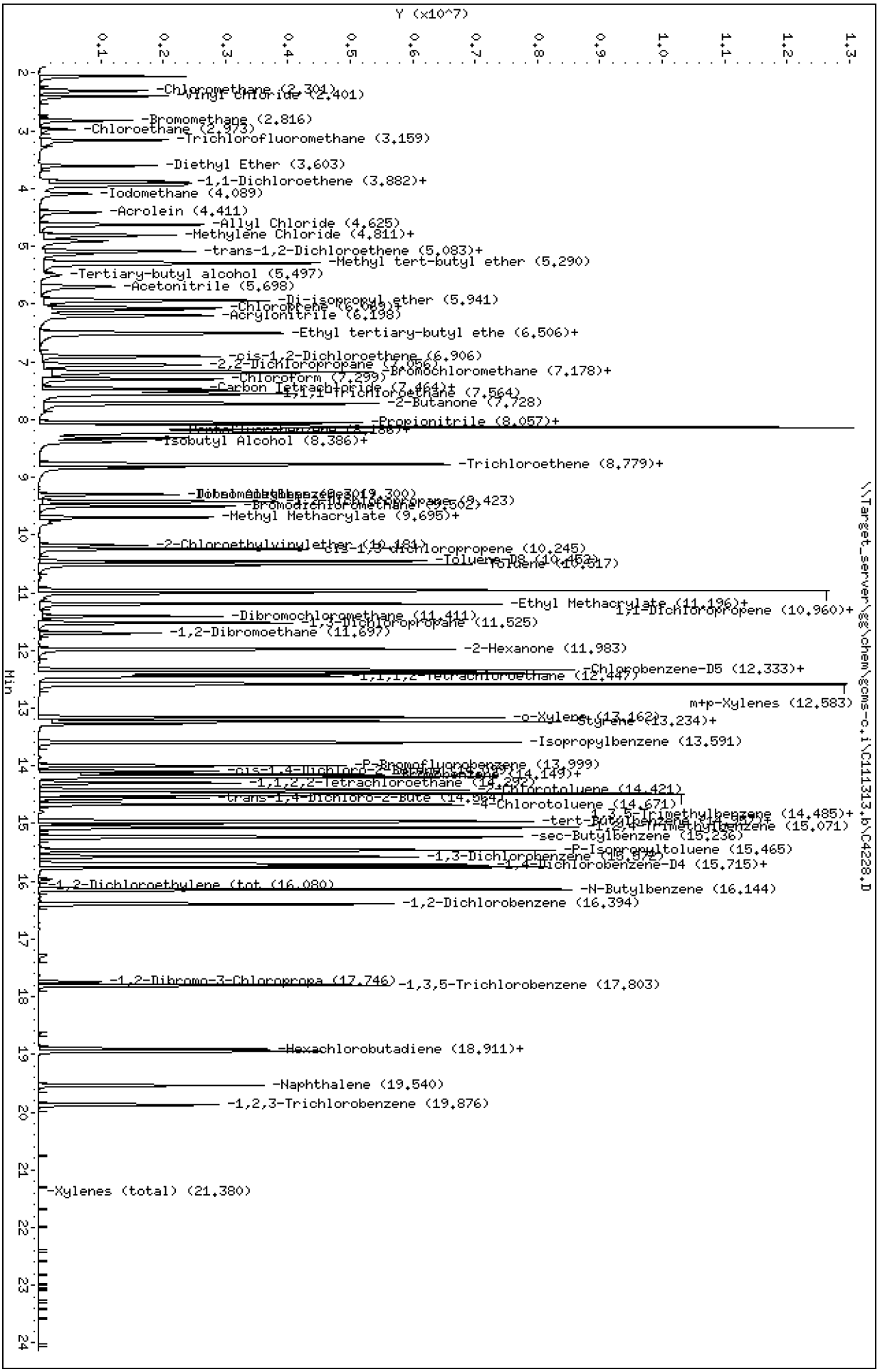
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.105	6.105	(0.746)	2472548	200.000	190	
	26 Acrylonitrile	52	6.198	6.198	(0.757)	2391780	1000.00	967	
	27 Ethyl tertiary-butyl ether	59	6.498	6.498	(0.794)	4092023	200.000	208(A)	
	28 Vinyl Acetate	43	6.519	6.520	(0.738)	3002280	200.000	208(A)	
	29 cis-1,2-Dichloroethene	96	6.906	6.913	(0.844)	1427519	200.000	193	
M	30 1,2-Dichloroethylene (total)	96				2679807	200.000	(a)	
	31 Methyl Methacrylate	41	9.694	9.694	(1.097)	1423983	200.000	220(A)	
	32 2,2-Dichloropropane	77	7.056	7.056	(0.862)	2058125	200.000	212(A)	
	33 Bromochloromethane	128	7.184	7.185	(0.878)	577583	200.000	196	
	34 Chloroform	83	7.299	7.299	(0.892)	2475722	200.000	191	
	35 Carbon Tetrachloride	117	7.463	7.463	(0.845)	1827359	200.000	215(A)	
	36 Tetrahydrofuran	42	7.499	7.506	(0.916)	2206114	1000.00	963	
$	37 Dibromofluoromethane	113	7.549	7.549	(0.922)	1231436	200.000	194	
	38 1,1,1-Trichloroethane	97	7.563	7.564	(0.924)	2189800	200.000	200	
	39 1,1-Dichloropropene	75	11.010	11.003	(1.246)	2149443	200.000	210(A)	
	40 2-Butanone	43	7.721	7.721	(0.943)	3344967	1000.00	949	
	41 Benzene	78	8.057	8.057	(0.912)	4879150	200.000	176	
*	42 Pentafluorobenzene	168	8.185	8.178	(1.000)	833945	50.0000		
	43 Cyclohexane	56	7.170	7.170	(0.876)	2337449	200.000	203(A)	
	44 Ethyl Methacrylate	69	11.188	11.189	(1.266)	1878675	200.000	210(A)	
$	45 1,2-Dichloroethane-D4	65	8.235	8.228	(1.006)	1307195	200.000	190	
	46 Tertiary-amyl methyl ether	73	8.221	8.214	(1.004)	3499421	200.000	206(A)	
	47 1,2-Dichloroethane	62	8.321	8.314	(0.942)	1704281	200.000	202(A)	
	48 Trichloroethene	95	8.786	8.786	(0.994)	1393374	200.000	211(A)	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1499723	50.0000		
	50 Dibromomethane	93	9.301	9.301	(1.053)	896968	200.000	196	
	51 1,2-Dichloropropane	63	9.422	9.423	(1.066)	1437817	200.000	202(A)	
	52 Bromodichloromethane	83	9.501	9.501	(1.075)	2018934	200.000	204(A)	
	53 cis-1,3-dichloropropene	75	10.245	10.245	(1.159)	2461259	200.000	202(A)	
	54 1,4-Dioxane	88	9.744	9.737	(1.103)	261022	4000.00	3910	
$	55 Toluene-D8	98	10.452	10.452	(1.183)	3819721	200.000	174	
	56 2-Chloroethylvinylether	63	10.180	10.181	(1.152)	695301	200.000	240(A)	
	57 Toluene	92	10.516	10.509	(1.190)	3140292	200.000	183	
	58 4-methyl-2-pentanone	43	10.967	10.960	(1.241)	5466551	1000.00	821	
	59 Tetrachloroethene	164	10.960	10.960	(0.888)	1091863	200.000	216(A)	
	60 trans-1,3-Dichloropropene	75	11.010	11.003	(1.246)	2149443	200.000	210(A)	
	61 1,1,2-Trichloroethane	83	11.196	11.196	(1.267)	1097255	200.000	196	
	62 Dibromochloromethane	129	11.410	11.410	(0.925)	1534226	200.000	218(A)	
	63 1,3-Dichloropropane	76	11.525	11.525	(0.934)	2356568	200.000	189	
	64 1,2-Dibromoethane	107	11.696	11.696	(1.324)	1367549	200.000	204(A)	
	65 2-Hexanone	43	11.982	11.975	(0.971)	4518169	1000.00	882	
*	66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	1486916	50.0000		
	67 Chlorobenzene	112	12.361	12.361	(1.002)	3175732	200.000	182	
	152 1-Chlorohexane	91	12.332	12.326	(0.999)	2242477	200.000	183	
	68 Ethylbenzene	106	12.397	12.390	(1.005)	2036528	200.000	196	
	69 1,1,1,2-Tetrachloroethane	131	12.447	12.440	(1.009)	1390373	200.000	208(A)	
M	70 Xylenes (total)	106				6674926	200.000	(a)	
	71 m+p-Xylenes	106	12.590	12.583	(1.020)	4382375	400.000	363	
	72 o-Xylene	106	13.162	13.155	(1.067)	2292551	200.000	202(A)	
	73 Styrene	104	13.233	13.226	(1.072)	3981021	200.000	193	
	74 Bromoform	173	13.269	13.269	(1.075)	1043666	200.000	226(A)	
	75 Isopropylbenzene	105	13.591	13.591	(0.866)	5323029	200.000	171	
$	76 P-Bromofluorobenzene	95	13.998	13.992	(1.584)	1938336	200.000	189	
	77 cis-1,4-Dichloro-2-Butene	53	14.099	14.092	(0.898)	653710	200.000	215(A)	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Report Date: 14-Nov-2013 07:11

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.563	14.556	(0.928)	586105	200.000	214(A)	
	79	Bromobenzene	156	14.149	14.149	(0.902)	1537977	200.000	204(A)	
	80	N-Propylbenzene	91	14.192	14.185	(0.904)	6213287	200.000	153	
	81	1,1,2,2-Tetrachloroethane	83	14.292	14.292	(0.911)	1939170	200.000	187	
	82	1,3,5-Trimethylbenzene	105	14.485	14.478	(0.923)	4945091	200.000	169	
	83	2-Chlorotoluene	91	14.420	14.413	(0.919)	4336395	200.000	175	
	84	1,2,3-Trichloropropane	75	14.499	14.492	(0.924)	1464820	200.000	177	
	85	4-Chlorotoluene	91	14.671	14.664	(0.935)	4382029	200.000	169	
	86	tert-Butylbenzene	119	14.957	14.957	(0.953)	4995352	200.000	184	
	87	Pentachloroethane	117	14.992	14.985	(0.955)	1303717	200.000	203(A)	
	88	1,2,4-Trimethylbenzene	105	15.071	15.064	(0.960)	4970917	200.000	172	
	89	P-Isopropyltoluene	119	15.464	15.457	(0.985)	4963942	200.000	174	
	90	1,3-Dichlorobenzene	146	15.571	15.572	(0.992)	2582259	200.000	188	
*	91	1,4-Dichlorobenzene-D4	152	15.693	15.686	(1.000)	813712	50.0000		
	92	1,4-Dichlorobenzene	146	15.714	15.708	(1.001)	2815475	200.000	185	
	93	N-Butylbenzene	91	16.143	16.137	(1.029)	5318986	200.000	159	
	94	sec-Butylbenzene	105	15.235	15.229	(0.971)	5877277	200.000	164	
	95	1,2-Dichlorobenzene	146	16.394	16.387	(1.045)	2420596	200.000	192	
	96	1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	319457	200.000	196	
	97	1,3,5-Trichlorobenzene	180	17.802	17.803	(1.134)	1882586	200.000	188	
	98	Hexachlorobutadiene	225	18.911	18.904	(1.205)	808933	200.000	180	
	99	1,2,4-Trichlorobenzene	180	18.946	18.947	(1.207)	1492846	200.000	185	
	100	1,2,3-Trimethylbenzene	105	15.757	15.750	(1.004)	4824977	200.000	165	
	101	Naphthalene	128	19.540	19.533	(1.245)	3062428	200.000	168	
	102	1,2,3-Trichlorobenzene	180	19.876	19.869	(1.267)	977997	200.000	199	
	103	Methyl Acetate	43	5.132	5.133	(0.627)	1360796	200.000	201(A)	
	104	Methylcyclohexane	83	8.772	8.772	(1.072)	2427580	200.000	207(A)	
M	153	Total Alkylbenzenes	100				37284852	200.000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.


Y (x10^7)
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23
24
-Chloromethane (2.304)
Vinyl Chloride (2.401)
-Bromomethane (2.816)
-Chloroethane (2.973)
-Trichlorofluoromethane (3.159)
-Diethyl Ether (3.603)
-1,1-Dichloroethene (3.882)+
-Iodomethane (4.089)
-Acrolein (4.411)
-Allyl Chloride (4.625)
-Methylene Chloride (4.811)+
-trans-1,2-Dichloroethene (5.083)+
-Methyl tert-butyl ether (5.290)
-Tertiary-butyl alcohol (5.497)
-Acetonitrile (5.698)
-Di-isopropyl ether (5.941)
-Acrylonitrile (6.198)
-Ethyl tertiary-butyl ethe (6.506)+
-cis-1,2-Dichloroethene (6.906)
-Chloroform (7.299)
-Bromochloromethane (7.178)+
-2-Butanone (7.728)
-Propionitrile (8.057)+
-Isobutyl Alcohol (8.386)+
-Trichloroethene (8.779)+
-Methyl Methacrylate (9.695)+
-2-Chloroethylvinylether (10.481)
-Toluene (11.517)
-Ethyl Methacrylate (11.196)+
1,1-Dichloropropene (10.960)+
-Dibromochloromethane (11.411)
-1,2-Dibromoethane (11.697)
-2-Hexanone (11.983)
-Chlorobenzene-D5 (12.333)+
m+p-Xylenes (12.583)
-o-Xylene (13.162)
-Isopropylbenzene (13.591)
-1,1,2,2-Tetrachloroethane (14.292)
-4-Chlorotoluene (14.421)
-trans-1,4-Dichloro-2-Bute (14.964)
-1,3,5-Trimethylbenzene (14.485)+
-tert-Butylbenzene (14.671)
-1,2,4-Trimethylbenzene (15.071)
-sec-Butylbenzene (15.236)
-P-Isopropyltoluene (15.465)
-1,3-Dichlorobenzene (15.672)
-1,4-Dichlorobenzene-D4 (15.715)+
-1,2-Dichloroethylene (tot (16.080)
-N-Butylbenzene (16.144)
-1,2-Dichlorobenzene (16.394)
-1,2-Dibromo-3-Chloroprop (17.746)
-1,3,5-Trichlorobenzene (17.803)
-Hexachlorobutadiene (18.911)+
-Naphthalene (19.540)
-1,2,3-Trichlorobenzene (19.876)
-Xylenes (total) (21.380)
\\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4228.D
Date : 13-NOV-2013 10:01
Client ID: Initial Calibration
Sample Info: WG134365-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D
Report Date: 14-Nov-2013 07:11

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D
Lab Smp Id: WG134365-5 Client Smp ID: Initial Calibration
Inj Date : 13-NOV-2013 10:32
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-5
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 10:32 Cal File: C4229.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260FULL-LD-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

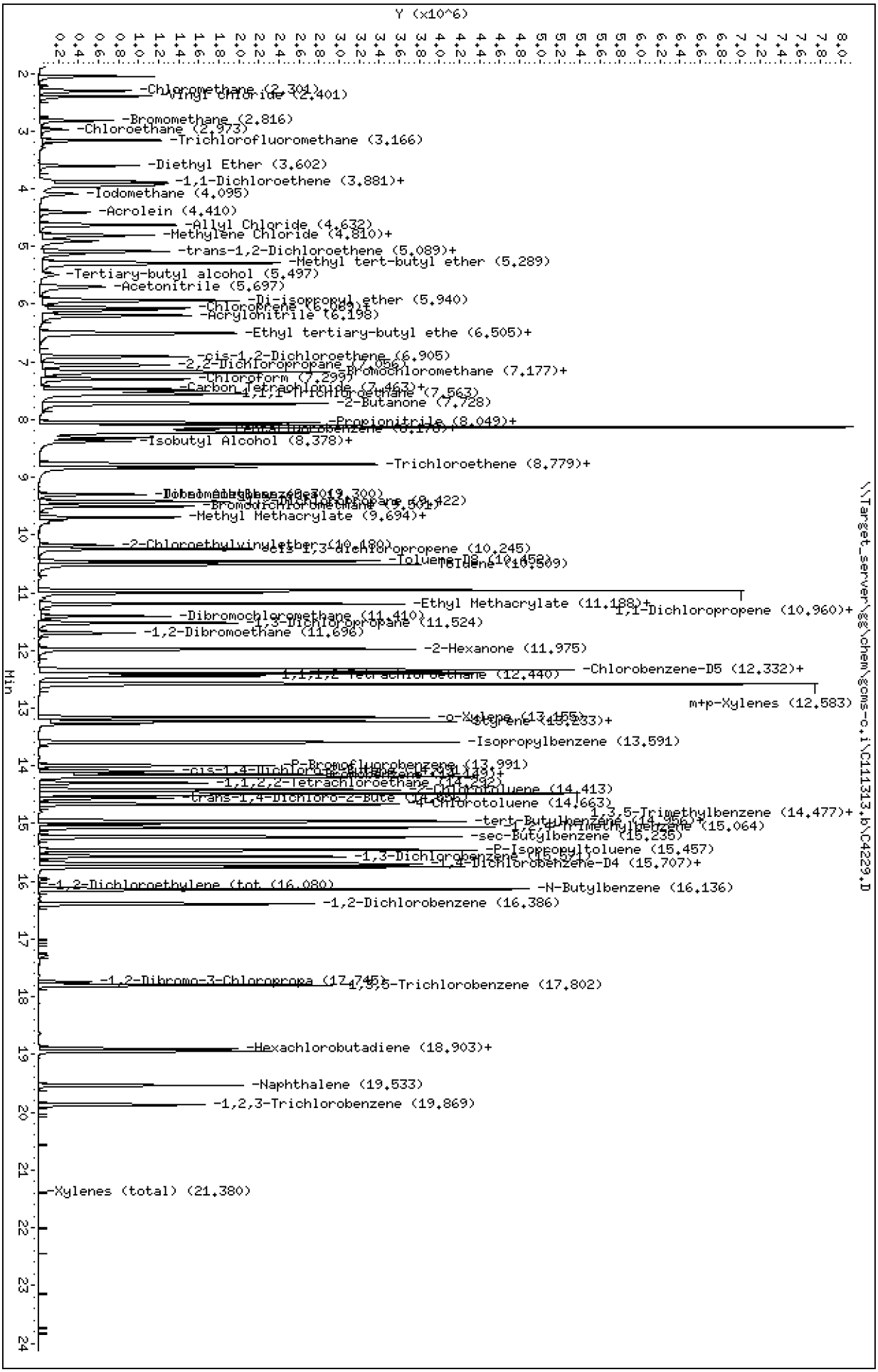
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.050	2.051	(0.251)	949068	100.000	101	
2	Chloromethane	50	2.300	2.301	(0.281)	1186845	100.000	93.6	
3	Vinyl chloride	62	2.400	2.401	(0.294)	935247	100.000	99.3	
4	Bromomethane	94	2.815	2.816	(0.344)	489916	100.000	99.4	
5	Chloroethane	64	2.972	2.980	(0.363)	293092	100.000	98.1	
6	Trichlorofluoromethane	101	3.165	3.166	(0.387)	1024801	100.000	105	
7	Diethyl Ether	59	3.602	3.602	(0.440)	576318	100.000	100	
8	Tertiary-butyl alcohol	59	5.496	5.490	(0.672)	316263	500.000	489	
9	1,1-Dichloroethene	96	3.880	3.881	(0.475)	495278	100.000	100	
10	Carbon Disulfide	76	3.916	3.917	(0.479)	1826716	100.000	95.9	
11	Freon-113	151	3.945	3.946	(0.482)	327073	100.000	105	
12	Iodomethane	142	4.095	4.089	(0.501)	548681	100.000	115	
13	Acrolein	56	4.410	4.410	(0.539)	594090	500.000	505	
14	Methylene Chloride	84	4.810	4.811	(0.588)	761471	100.000	102	
15	Acetone	43	4.903	4.904	(0.600)	1163475	500.000	485	
16	Isobutyl Alcohol	43	8.378	8.379	(1.024)	607095	2000.00	2260	
17	trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	638123	100.000	98.3	
18	Allyl Chloride	41	4.631	4.632	(0.566)	1185486	100.000	96.7	
19	Methyl tert-butyl ether	73	5.289	5.290	(0.647)	3446354	200.000	203	
20	Acetonitrile	39	5.697	5.697	(0.697)	241481	1000.00	1020	
21	Di-isopropyl ether	45	5.940	5.940	(0.726)	2490021	100.000	102	
22	Chloroprene	53	6.068	6.069	(0.742)	1042086	100.000	103	
23	Propionitrile	54	8.106	8.106	(0.991)	1135780	1000.00	1010	
24	Methacrylonitrile	41	8.128	8.128	(0.994)	4161669	1000.00	1020	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D
Report Date: 14-Nov-2013 07:11

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.104	6.105	(0.746)	1255008	100.000	98.3	
	26 Acrylonitrile	52	6.197	6.198	(0.758)	1220203	500.000	501	
	27 Ethyl tertiary-butyl ether	59	6.497	6.498	(0.795)	2086302	100.000	108	
	28 Vinyl Acetate	43	6.519	6.520	(0.738)	1533756	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.905	6.913	(0.844)	729527	100.000	100	
	31 Methyl Methacrylate	41	9.693	9.694	(1.097)	694321	100.000	107	
	32 2,2-Dichloropropane	77	7.055	7.056	(0.863)	1024213	100.000	107	
	33 Bromochloromethane	128	7.184	7.185	(0.878)	283315	100.000	97.6	
	34 Chloroform	83	7.298	7.299	(0.892)	1256854	100.000	98.4	
	35 Carbon Tetrachloride	117	7.463	7.463	(0.845)	902643	100.000	106	
	36 Tetrahydrofuran	42	7.498	7.506	(0.917)	1125553	500.000	499	
$	37 Dibromofluoromethane	113	7.548	7.549	(0.923)	612537	100.000	97.8	
	38 1,1,1-Trichloroethane	97	7.563	7.564	(0.925)	1093858	100.000	101	
	39 1,1-Dichloropropene	75	11.002	11.003	(1.245)	1076575	100.000	105	
	40 2-Butanone	43	7.720	7.721	(0.944)	1786049	500.000	515	
	41 Benzene	78	8.056	8.057	(0.912)	2655498	100.000	95.8	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	820785	50.0000		
	43 Cyclohexane	56	7.169	7.170	(0.877)	1180578	100.000	104	
	44 Ethyl Methacrylate	69	11.188	11.189	(1.266)	958650	100.000	107	
$	45 1,2-Dichloroethane-D4	65	8.235	8.228	(1.007)	642475	100.000	94.7	
	46 Tertiary-amyl methyl ether	73	8.213	8.214	(1.004)	1788761	100.000	107	
	47 1,2-Dichloroethane	62	8.321	8.314	(0.942)	817089	100.000	96.5	
	48 Trichloroethene	95	8.785	8.786	(0.994)	654970	100.000	98.7	
*	49 1,4-Difluorobenzene	114	8.835	8.836	(1.000)	1505266	50.0000		
	50 Dibromomethane	93	9.300	9.301	(1.053)	435392	100.000	94.7	
	51 1,2-Dichloropropane	63	9.422	9.423	(1.066)	722098	100.000	101	
	52 Bromodichloromethane	83	9.500	9.501	(1.075)	997260	100.000	100	
	53 cis-1,3-dichloropropene	75	10.244	10.245	(1.159)	1256170	100.000	102	
	54 1,4-Dioxane	88	9.744	9.737	(1.103)	180285	2000.00	2230	
$	55 Toluene-D8	98	10.451	10.452	(1.183)	2109503	100.000	95.9	
	56 2-Chloroethylvinylether	63	10.180	10.181	(1.152)	312958	100.000	108	
	57 Toluene	92	10.509	10.509	(1.189)	1680563	100.000	97.4	
	58 4-methyl-2-pentanone	43	10.959	10.960	(1.240)	3258528	500.000	487	
	59 Tetrachloroethene	164	10.959	10.960	(0.888)	506615	100.000	104	
	60 trans-1,3-Dichloropropene	75	11.002	11.003	(1.245)	1076575	100.000	105	
	61 1,1,2-Trichloroethane	83	11.195	11.196	(1.267)	550035	100.000	97.9	
	62 Dibromochloromethane	129	11.409	11.410	(0.925)	726396	100.000	107	
	63 1,3-Dichloropropane	76	11.524	11.525	(0.934)	1193773	100.000	99.9	
	64 1,2-Dibromoethane	107	11.696	11.696	(1.324)	672928	100.000	100	
	65 2-Hexanone	43	11.974	11.975	(0.970)	2504655	500.000	509	
*	66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1428673	50.0000		
	67 Chlorobenzene	112	12.360	12.361	(1.002)	1637119	100.000	97.8	
	152 1-Chlorohexane	91	12.325	12.326	(0.999)	1167703	100.000	99.2	
	68 Ethylbenzene	106	12.396	12.390	(1.005)	1008201	100.000	101	
	69 1,1,1,2-Tetrachloroethane	131	12.439	12.440	(1.008)	664066	100.000	103	
	71 m+p-Xylenes	106	12.582	12.583	(1.020)	2345374	200.000	202	
	72 o-Xylene	106	13.154	13.155	(1.066)	1153699	100.000	106	
	73 Styrene	104	13.233	13.226	(1.072)	2091263	100.000	106	
	74 Bromoform	173	13.269	13.269	(1.075)	486555	100.000	110	
	75 Isopropylbenzene	105	13.590	13.591	(0.866)	2976608	100.000	99.2	
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	983874	100.000	95.8	
	77 cis-1,4-Dichloro-2-Butene	53	14.091	14.092	(0.898)	308414	100.000	105	
	78 trans-1,4-Dichloro-2-Butene	53	14.556	14.556	(0.928)	290638	100.000	110	
	79 Bromobenzene	156	14.148	14.149	(0.902)	733170	100.000	101	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D
Report Date: 14-Nov-2013 07:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.184	14.185	(0.904)	3751417	100.000	96.3	
81	1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	989408	100.000	99.2	
82	1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	2803941	100.000	99.4	
83	2-Chlorotoluene	91	14.413	14.413	(0.919)	2394339	100.000	100	
84	1,2,3-Trichloropropane	75	14.491	14.492	(0.924)	739224	100.000	93.1	
85	4-Chlorotoluene	91	14.663	14.664	(0.935)	2421203	100.000	97.1	
86	tert-Butylbenzene	119	14.956	14.957	(0.954)	2663746	100.000	102	
87	Pentachloroethane	117	14.985	14.985	(0.955)	640013	100.000	104	
88	1,2,4-Trimethylbenzene	105	15.070	15.064	(0.961)	2807393	100.000	101	
89	P-Isopropyltoluene	119	15.456	15.457	(0.985)	2815838	100.000	102	
90	1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	1299250	100.000	98.4	
* 91	1,4-Dichlorobenzene-D4	152	15.685	15.686	(1.000)	782791	50.0000		
92	1,4-Dichlorobenzene	146	15.714	15.708	(1.002)	1416930	100.000	97.0	
93	N-Butylbenzene	91	16.136	16.137	(1.029)	3174916	100.000	98.9	
94	sec-Butylbenzene	105	15.235	15.229	(0.971)	3445486	100.000	100	
95	1,2-Dichlorobenzene	146	16.393	16.387	(1.045)	1201869	100.000	98.9	
96	1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	161332	100.000	103	
97	1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	956262	100.000	99.1	
98	Hexachlorobutadiene	225	18.903	18.904	(1.205)	426831	100.000	98.7	
99	1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	759879	100.000	97.9	
100	1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	2729441	100.000	96.8	
101	Naphthalene	128	19.532	19.533	(1.245)	1754857	100.000	100	
102	1,2,3-Trichlorobenzene	180	19.875	19.869	(1.267)	566651	100.000	104	
103	Methyl Acetate	43	5.132	5.133	(0.628)	661002	100.000	99.3	
104	Methylcyclohexane	83	8.771	8.772	(1.073)	1285193	100.000	112	



Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D
Date : 13-NOV-2013 10:32
Client ID: Initial Calibration
Sample Info: WG134365-5
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

\\Target_server\gg\chem\gcms-c.i\C111313.b\C4229.D

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4230.D
Report Date: 15-Nov-2013 10:04

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Data file : \\target_server\gg\chem\gcms-c.i\C111313.b\C4230.D
Lab Smp Id: WG134365-4 Client Smp ID: Initial Calibration
Inj Date : 13-NOV-2013 11:04
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-4
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 11:04 Cal File: C4230.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260FULL-LD-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

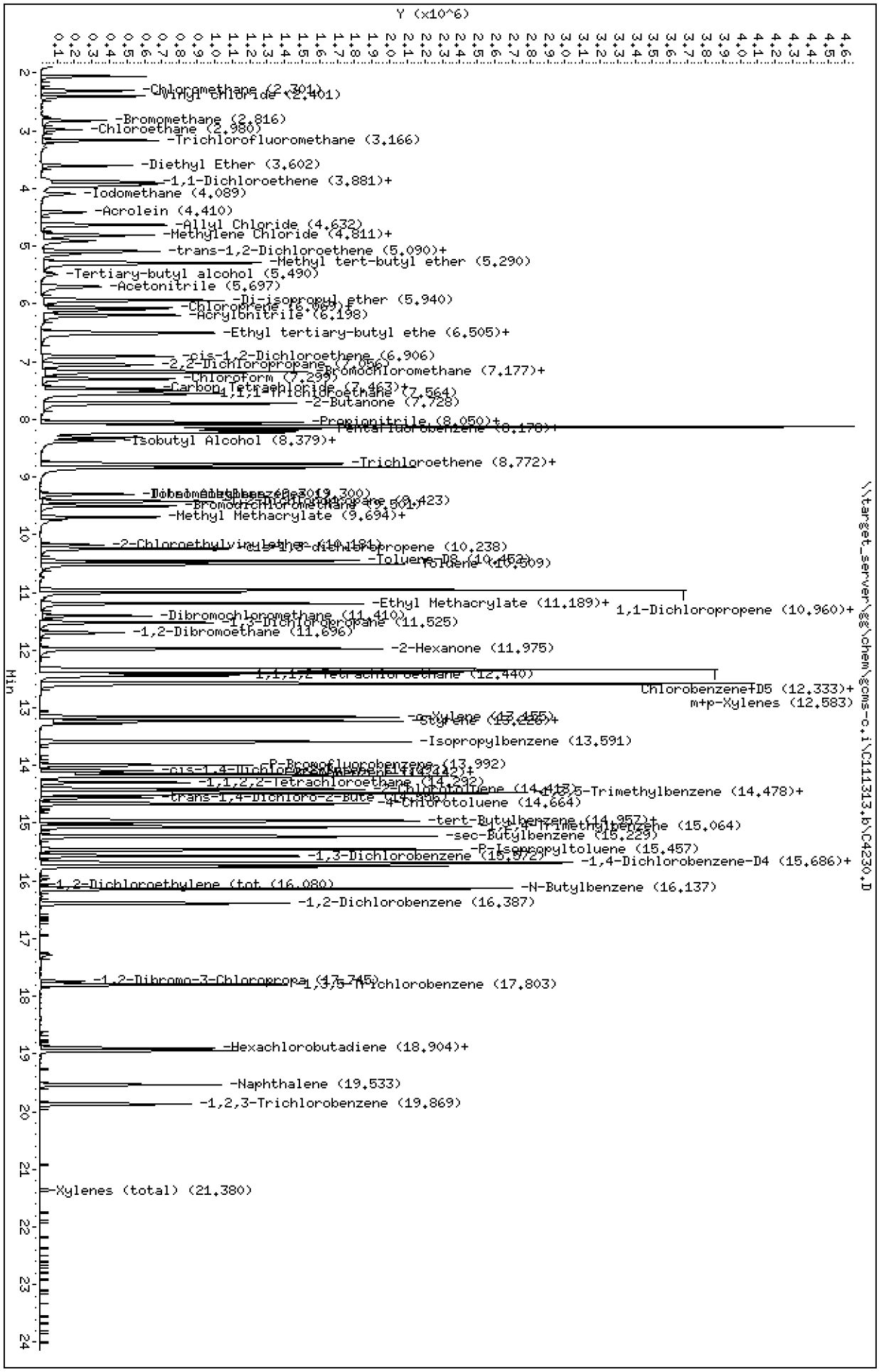
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.050	2.051	(0.251)	478676	50.0000	49.8	
2	Chloromethane	50	2.301	2.301	(0.281)	611692	50.0000	47.2	
3	Vinyl chloride	62	2.401	2.401	(0.294)	475442	50.0000	49.3	
4	Bromomethane	94	2.815	2.816	(0.344)	236798	50.0000	47.0	
5	Chloroethane	64	2.980	2.980	(0.364)	201812	50.0000	53.2	
6	Trichlorofluoromethane	101	3.166	3.166	(0.387)	507671	50.0000	50.6	
7	Diethyl Ether	59	3.602	3.602	(0.440)	286533	50.0000	48.8	
8	Tertiary-butyl alcohol	59	5.490	5.490	(0.671)	158686	250.000	242	
9	1,1-Dichloroethene	96	3.881	3.881	(0.475)	252947	50.0000	50.2	
10	Carbon Disulfide	76	3.917	3.917	(0.479)	919973	50.0000	47.2	
11	Freon-113	151	3.945	3.946	(0.482)	162356	50.0000	50.9	
12	Iodomethane	142	4.088	4.089	(0.500)	262523	50.0000	53.9	
13	Acrolein	56	4.410	4.410	(0.539)	294982	250.000	245	
14	Methylene Chloride	84	4.810	4.811	(0.588)	403709	50.0000	50.7	
15	Acetone	43	4.903	4.904	(0.600)	570863	250.000	232	
16	Isobutyl Alcohol	43	8.378	8.379	(1.024)	287861	1000.00	1050	
17	trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	326667	50.0000	49.2	
18	Allyl Chloride	41	4.632	4.632	(0.566)	642164	50.0000	51.2	
19	Methyl tert-butyl ether	73	5.289	5.290	(0.647)	1748498	100.000	100	
20	Acetonitrile	39	5.697	5.697	(0.697)	114416	500.000	475	
21	Di-isopropyl ether	45	5.940	5.940	(0.726)	1278908	50.0000	51.2	
22	Chloroprene	53	6.069	6.069	(0.742)	518391	50.0000	50.1	
23	Propionitrile	54	8.106	8.106	(0.991)	570491	500.000	498	
24	Methacrylonitrile	41	8.128	8.128	(0.994)	2362910	500.000	480	

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4230.D
Report Date: 15-Nov-2013 10:04

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.104	6.105	(0.746)	650306	50.0000	49.8	
	26	Acrylonitrile	52	6.197	6.198	(0.758)	614846	250.000	247	
	27	Ethyl tertiary-butyl ether	59	6.498	6.498	(0.795)	1019382	50.0000	51.4	
	28	Vinyl Acetate	43	6.519	6.520	(0.738)	770847	50.0000	51.8	
	29	cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	369577	50.0000	49.6	
	31	Methyl Methacrylate	41	9.694	9.694	(1.097)	347219	50.0000	52.0	
	32	2,2-Dichloropropane	77	7.055	7.056	(0.863)	498326	50.0000	50.9	
	33	Bromochloromethane	128	7.184	7.185	(0.878)	146500	50.0000	49.3	
	34	Chloroform	83	7.299	7.299	(0.892)	650304	50.0000	49.8	
	35	Carbon Tetrachloride	117	7.463	7.463	(0.845)	459503	50.0000	52.6	
	36	Tetrahydrofuran	42	7.506	7.506	(0.918)	585576	250.000	254	
$	37	Dibromofluoromethane	113	7.549	7.549	(0.923)	313308	50.0000	48.9	
	38	1,1,1-Trichloroethane	97	7.563	7.564	(0.925)	564667	50.0000	51.2	
	39	1,1-Dichloropropene	75	11.002	11.003	(1.245)	540669	50.0000	51.3	
	40	2-Butanone	43	7.720	7.721	(0.944)	907933	250.000	256	
	41	Benzene	78	8.056	8.057	(0.912)	1421776	50.0000	50.0	
*	42	Pentafluorobenzene	168	8.178	8.178	(1.000)	839803	50.0000		
	43	Cyclohexane	56	7.170	7.170	(0.877)	601347	50.0000	52.0	
	44	Ethyl Methacrylate	69	11.188	11.189	(1.266)	487783	50.0000	53.1	
$	45	1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	336752	50.0000	48.5	
	46	Tertiary-amyl methyl ether	73	8.214	8.214	(1.004)	896440	50.0000	52.3	
	47	1,2-Dichloroethane	62	8.314	8.314	(0.941)	417712	50.0000	48.1	
	48	Trichloroethene	95	8.786	8.786	(0.994)	338873	50.0000	49.8	
*	49	1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1543992	50.0000		
	50	Dibromomethane	93	9.301	9.301	(1.053)	224809	50.0000	47.6	
	51	1,2-Dichloropropane	63	9.422	9.423	(1.066)	366636	50.0000	50.0	
	52	Bromodichloromethane	83	9.501	9.501	(1.075)	505014	50.0000	49.4	
	53	cis-1,3-dichloropropene	75	10.244	10.245	(1.159)	644786	50.0000	51.3	
	54	1,4-Dioxane	88	9.737	9.737	(1.102)	86933	1000.00	813	
$	55	Toluene-D8	98	10.452	10.452	(1.183)	1131549	50.0000	50.2	
	56	2-Chloroethylvinylether	63	10.180	10.181	(1.152)	154805	50.0000	51.9	
	57	Toluene	92	10.509	10.509	(1.189)	880760	50.0000	49.8	
	58	4-methyl-2-pentanone	43	10.959	10.960	(1.240)	1775256	250.000	259	
	59	Tetrachloroethene	164	10.959	10.960	(0.888)	245065	50.0000	49.8	
	60	trans-1,3-Dichloropropene	75	11.002	11.003	(1.245)	540669	50.0000	51.3	
	61	1,1,2-Trichloroethane	83	11.195	11.196	(1.267)	281949	50.0000	48.9	
	62	Dibromochloromethane	129	11.410	11.410	(0.925)	356177	50.0000	51.9	
	63	1,3-Dichloropropane	76	11.524	11.525	(0.934)	612218	50.0000	50.5	
	64	1,2-Dibromoethane	107	11.696	11.696	(1.324)	346304	50.0000	50.3	
	65	2-Hexanone	43	11.975	11.975	(0.970)	1309972	250.000	262	
*	66	Chlorobenzene-D5	117	12.339	12.340	(1.000)	1449989	50.0000		
	67	Chlorobenzene	112	12.361	12.361	(1.002)	840919	50.0000	49.5	
	152	1-Chlorohexane	91	12.325	12.326	(0.999)	579431	50.0000	48.5	
	68	Ethylbenzene	106	12.389	12.390	(1.004)	512309	50.0000	50.5	
	69	1,1,1,2-Tetrachloroethane	131	12.439	12.440	(1.008)	329128	50.0000	50.5	
	71	m+p-Xylenes	106	12.582	12.583	(1.020)	1210830	100.000	103	
	72	o-Xylene	106	13.154	13.155	(1.066)	579188	50.0000	52.4	
	73	Styrene	104	13.226	13.226	(1.072)	1067173	50.0000	53.1	
	74	Bromoform	173	13.269	13.269	(1.075)	233992	50.0000	52.0	
	75	Isopropylbenzene	105	13.591	13.591	(0.866)	1566491	50.0000	51.3	
$	76	P-Bromofluorobenzene	95	13.991	13.992	(1.583)	514166	50.0000	48.8	
	77	cis-1,4-Dichloro-2-Butene	53	14.091	14.092	(0.898)	150303	50.0000	50.5	
	78	trans-1,4-Dichloro-2-Butene	53	14.556	14.556	(0.928)	138857	50.0000	51.9	
	79	Bromobenzene	156	14.148	14.149	(0.902)	357776	50.0000	48.4	

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4230.D
Report Date: 15-Nov-2013 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.184	14.185	(0.904)	2025375	50.0000	51.1	
81	1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	497783	50.0000	49.0	
82	1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1480224	50.0000	51.6	
83	2-Chlorotoluene	91	14.413	14.413	(0.919)	1238882	50.0000	51.0	
84	1,2,3-Trichloropropane	75	14.492	14.492	(0.924)	384255	50.0000	47.5	
85	4-Chlorotoluene	91	14.663	14.664	(0.935)	1269797	50.0000	50.0	
86	tert-Butylbenzene	119	14.956	14.957	(0.954)	1350908	50.0000	50.9	
87	Pentachloroethane	117	14.985	14.985	(0.955)	322797	50.0000	51.4	
88	1,2,4-Trimethylbenzene	105	15.064	15.064	(0.960)	1501117	50.0000	52.9	
89	P-Isopropyltoluene	119	15.457	15.457	(0.985)	1470950	50.0000	52.6	
90	1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	653595	50.0000	48.6	
* 91	1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	796751	50.0000		
92	1,4-Dichlorobenzene	146	15.707	15.708	(1.001)	709715	50.0000	47.7	
93	N-Butylbenzene	91	16.136	16.137	(1.029)	1736374	50.0000	53.1	
94	sec-Butylbenzene	105	15.228	15.229	(0.971)	1820017	50.0000	52.0	
95	1,2-Dichlorobenzene	146	16.386	16.387	(1.045)	606181	50.0000	49.0	
96	1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	79689	50.0000	49.8	
97	1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	475822	50.0000	48.5	
98	Hexachlorobutadiene	225	18.903	18.904	(1.205)	215521	50.0000	49.0	
99	1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	372209	50.0000	47.1	
100	1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	1463737	50.0000	51.0	
101	Naphthalene	128	19.532	19.533	(1.245)	882984	50.0000	49.6	
102	1,2,3-Trichlorobenzene	180	19.868	19.869	(1.267)	279698	50.0000	45.4	
103	Methyl Acetate	43	5.132	5.133	(0.628)	339043	50.0000	49.8	
104	Methylcyclohexane	83	8.771	8.772	(1.073)	614955	50.0000	52.1	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Date : 13-NOV-2013 11:04
Client ID: Initial Calibration
Sample Info: WG134365-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C111313.b\C4230.D
-Chloromethane (2.301)
-Vinyl Chloride (2.401)
-Bromomethane (2.816)
-Chloroethane (2.980)
-Trichlorofluoromethane (3.166)
-Diethyl Ether (3.602)
-1,1-Dichloroethene (3.881)+
-Iodomethane (4.089)
-Acrolein (4.410)
-Allyl Chloride (4.632)
-Methylene Chloride (4.811)+
-trans-1,2-Dichloroethene (5.090)+
-Methyl tert-butyl ether (5.290)
-Tertiary-butyl alcohol (5.490)
-Acetonitrile (5.697)
-Di-isopropyl ether (5.940)
-Chloroprene (6.069)+
-Acrylonitrile (6.198)
-Ethyl tertiary-butyl ethe (6.505)+
-cis-1,2-Dichloroethene (6.906)
-2,2-Dichloropropane (7.056)
-Bromochloromethane (7.177)+
-Chloroform (7.299)
-Carbon Tetrachloride (7.463)+
1,1,1-Trichloroethane (7.564)
-2-Butanone (7.728)
-Propionitrile (8.050)+
Pentafluorobenzene (8.170)+
-Isobutyl Alcohol (8.379)+
-Trichloroethene (8.772)+
-Methyl Methacrylate (9.694)+
-2-Chloroethylvinylether (10.194)
cis-1,3-dichloropropene (10.238)
-Toluene-D8 (10.452)
Toluene (10.509)
-Ethyl Methacrylate (11.189)+
1,1-Dichloropropene (10.960)+
-Dibromochloromethane (11.410)
-1,3-Dichloropropane (11.525)
-1,2-Dibromoethane (11.696)
-2-Hexanone (11.975)
1,1,1,2-Tetrachloroethane (12.440)
Chlorobenzene-D5 (12.333)+
m+p-Xylenes (12.583)
-o-Xylene (12.955)
-Styrene (13.026)+
-Isopropylbenzene (13.591)
-P-Bromofluorobenzene (13.992)
-cis-1,4-Dichloro-2-butene (14.242)+
-1,1,2,2-Tetrachloroethane (14.292)
-Bromobenzene (14.417)
1,3,5-Trimethylbenzene (14.478)+
-trans-1,4-Dichloro-2-bute (14.598)
-4-Chlorotoluene (14.664)
-tert-Butylbenzene (14.957)+
1,2,4-Trimethylbenzene (15.064)
-sec-Butylbenzene (15.229)
-P-Isopropyltoluene (15.457)
-1,3-Dichlorobenzene (15.572)
-1,4-Dichlorobenzene-D4 (15.686)+
-1,2-Dichloroethylene (tot (16.080)
-N-Butylbenzene (16.137)
-1,2-Dichlorobenzene (16.387)
-1,2-Dibromo-3-Chloroprop (17.745)
1,3,5-Trichlorobenzene (17.803)
-Hexachlorobutadiene (18.904)+
-Naphthalene (19.533)
-1,2,3-Trichlorobenzene (19.869)
-Xylenes (total) (21.380)

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D
Report Date: 14-Nov-2013 07:11

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D
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Inj Date : 13-NOV-2013 11:35
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-3
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 11:35 Cal File: C4231.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260FULL-LD-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

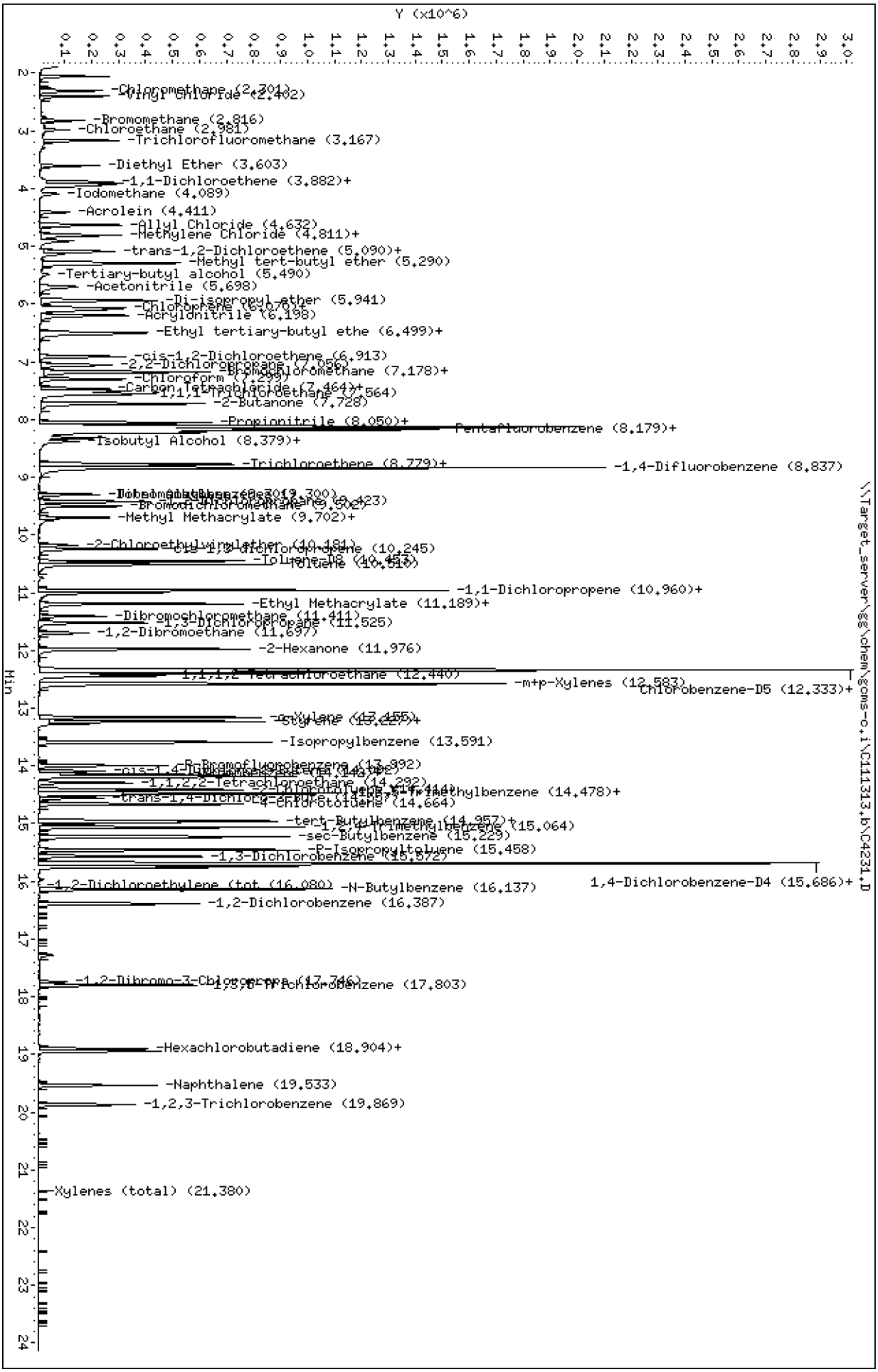
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.051	2.051	(0.251)	203088	20.0000	21.0	
2	Chloromethane	50	2.301	2.301	(0.281)	263637	20.0000	20.3	
3	Vinyl chloride	62	2.401	2.401	(0.294)	202903	20.0000	21.0	
4	Bromomethane	94	2.816	2.816	(0.344)	98562	20.0000	19.6	
5	Chloroethane	64	2.980	2.980	(0.364)	91976	20.0000	18.0	
6	Trichlorofluoromethane	101	3.166	3.166	(0.387)	219568	20.0000	21.9	
7	Diethyl Ether	59	3.602	3.602	(0.440)	118148	20.0000	20.1	
8	Tertiary-butyl alcohol	59	5.490	5.490	(0.671)	60065	100.000	94.4	
9	1,1-Dichloroethene	96	3.881	3.881	(0.475)	100686	20.0000	20.0	
10	Carbon Disulfide	76	3.917	3.917	(0.479)	352196	20.0000	18.1	
11	Freon-113	151	3.945	3.946	(0.482)	70853	20.0000	22.2	
12	Iodomethane	142	4.088	4.089	(0.500)	94381	20.0000	19.4	
13	Acrolein	56	4.410	4.410	(0.539)	120511	100.000	100	
14	Methylene Chloride	84	4.811	4.811	(0.588)	190200	20.0000	21.7	
15	Acetone	43	4.904	4.904	(0.600)	243685	100.000	99.2	
16	Isobutyl Alcohol	43	8.379	8.379	(1.024)	103567	400.000	377	
17	trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	135537	20.0000	20.4	
18	Allyl Chloride	41	4.632	4.632	(0.566)	269785	20.0000	21.5	
19	Methyl tert-butyl ether	73	5.290	5.290	(0.647)	738986	40.0000	42.5	
20	Acetonitrile	39	5.697	5.697	(0.697)	52544	200.000	218	
21	Di-isopropyl ether	45	5.940	5.940	(0.726)	530606	20.0000	21.3	
22	Chloroprene	53	6.069	6.069	(0.742)	215743	20.0000	20.9	
23	Propionitrile	54	8.100	8.106	(0.990)	234294	200.000	204	
24	Methacrylonitrile	41	8.128	8.128	(0.994)	1062507	200.000	192	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D
Report Date: 14-Nov-2013 07:11

							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.105	6.105	(0.746)	266759	20.0000	20.4	
	26 Acrylonitrile	52	6.198	6.198	(0.758)	255182	100.000	102	
	27 Ethyl tertiary-butyl ether	59	6.498	6.498	(0.795)	407989	20.0000	20.6	
	28 Vinyl Acetate	43	6.519	6.520	(0.738)	307649	20.0000	20.8	
	29 cis-1,2-Dichloroethene	96	6.913	6.913	(0.845)	150645	20.0000	20.2	
	31 Methyl Methacrylate	41	9.694	9.694	(1.097)	134028	20.0000	20.2	
	32 2,2-Dichloropropane	77	7.056	7.056	(0.863)	200581	20.0000	20.5	
	33 Bromochloromethane	128	7.184	7.185	(0.878)	59993	20.0000	20.2	
	34 Chloroform	83	7.299	7.299	(0.892)	268083	20.0000	20.5	
	35 Carbon Tetrachloride	117	7.463	7.463	(0.845)	181564	20.0000	21.0	
	36 Tetrahydrofuran	42	7.506	7.506	(0.918)	228886	100.000	99.2	
$	37 Dibromofluoromethane	113	7.549	7.549	(0.923)	127274	20.0000	19.9	
	38 1,1,1-Trichloroethane	97	7.563	7.564	(0.925)	225107	20.0000	20.4	
	39 1,1-Dichloropropene	75	11.003	11.003	(1.245)	220805	20.0000	21.1	
	40 2-Butanone	43	7.721	7.721	(0.944)	376959	100.000	106	
	41 Benzene	78	8.050	8.057	(0.911)	578548	20.0000	20.5	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	839573	50.0000		
	43 Cyclohexane	56	7.170	7.170	(0.877)	251470	20.0000	21.7	
	44 Ethyl Methacrylate	69	11.189	11.189	(1.266)	196445	20.0000	21.6	
$	45 1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	137618	20.0000	19.8	
	46 Tertiary-amyl methyl ether	73	8.214	8.214	(1.004)	355551	20.0000	20.8	
	47 1,2-Dichloroethane	62	8.321	8.314	(0.942)	173979	20.0000	20.2	
	48 Trichloroethene	95	8.786	8.786	(0.994)	136725	20.0000	20.2	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1531776	50.0000		
	50 Dibromomethane	93	9.301	9.301	(1.053)	90662	20.0000	19.4	
	51 1,2-Dichloropropane	63	9.422	9.423	(1.066)	150301	20.0000	20.7	
	52 Bromodichloromethane	83	9.501	9.501	(1.075)	204152	20.0000	20.2	
	53 cis-1,3-dichloropropene	75	10.245	10.245	(1.159)	261766	20.0000	21.0	
	54 1,4-Dioxane	88	9.744	9.737	(1.103)	36796	400.000	321	
$	55 Toluene-D8	98	10.452	10.452	(1.183)	467111	20.0000	20.9	
	56 2-Chloroethylvinylether	63	10.180	10.181	(1.152)	57356	20.0000	19.4	
	57 Toluene	92	10.509	10.509	(1.189)	365040	20.0000	20.8	
	58 4-methyl-2-pentanone	43	10.960	10.960	(1.240)	754312	100.000	111	
	59 Tetrachloroethene	164	10.960	10.960	(0.888)	97742	20.0000	19.9	
	60 trans-1,3-Dichloropropene	75	11.003	11.003	(1.245)	220805	20.0000	21.1	
	61 1,1,2-Trichloroethane	83	11.196	11.196	(1.267)	117543	20.0000	20.6	
	62 Dibromochloromethane	129	11.410	11.410	(0.925)	145844	20.0000	21.3	
	63 1,3-Dichloropropane	76	11.525	11.525	(0.934)	258450	20.0000	21.4	
	64 1,2-Dibromoethane	107	11.696	11.696	(1.324)	137276	20.0000	20.1	
	65 2-Hexanone	43	11.975	11.975	(0.970)	551636	100.000	111	
*	66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	1447153	50.0000		
	67 Chlorobenzene	112	12.361	12.361	(1.002)	350989	20.0000	20.7	
	152 1-Chlorohexane	91	12.325	12.326	(0.999)	236891	20.0000	19.9	
	68 Ethylbenzene	106	12.390	12.390	(1.004)	211658	20.0000	20.9	
	69 1,1,1,2-Tetrachloroethane	131	12.440	12.440	(1.008)	130668	20.0000	20.1	
	71 m+p-Xylenes	106	12.583	12.583	(1.020)	497893	40.0000	42.4	
	72 o-Xylene	106	13.155	13.155	(1.066)	237181	20.0000	21.5	
	73 Styrene	104	13.226	13.226	(1.072)	430311	20.0000	21.4	
	74 Bromoform	173	13.269	13.269	(1.075)	91125	20.0000	20.3	
	75 Isopropylbenzene	105	13.591	13.591	(0.866)	642640	20.0000	21.3	
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	213061	20.0000	20.4	
	77 cis-1,4-Dichloro-2-Butene	53	14.091	14.092	(0.898)	59770	20.0000	20.4	
	78 trans-1,4-Dichloro-2-Butene	53	14.556	14.556	(0.928)	54060	20.0000	20.5	
	79 Bromobenzene	156	14.149	14.149	(0.902)	141233	20.0000	19.4	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D
Report Date: 14-Nov-2013 07:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.184	14.185	(0.904)	867504	20.0000	22.2	
81	1,1,2,2-Tetrachloroethane	83	14.292	14.292	(0.911)	203756	20.0000	20.4	
82	1,3,5-Trimethylbenzene	105	14.478	14.478	(0.923)	616128	20.0000	21.8	
83	2-Chlorotoluene	91	14.413	14.413	(0.919)	509127	20.0000	21.3	
84	1,2,3-Trichloropropane	75	14.492	14.492	(0.924)	164211	20.0000	20.6	
85	4-Chlorotoluene	91	14.663	14.664	(0.935)	526317	20.0000	21.0	
86	tert-Butylbenzene	119	14.957	14.957	(0.954)	551803	20.0000	21.1	
87	Pentachloroethane	117	14.985	14.985	(0.955)	125800	20.0000	20.3	
88	1,2,4-Trimethylbenzene	105	15.064	15.064	(0.960)	611751	20.0000	21.9	
89	P-Isopropyltoluene	119	15.457	15.457	(0.985)	603706	20.0000	21.9	
90	1,3-Dichlorobenzene	146	15.572	15.572	(0.993)	264457	20.0000	20.0	
* 91	1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	785328	50.0000		
92	1,4-Dichlorobenzene	146	15.707	15.708	(1.001)	291974	20.0000	19.9	
93	N-Butylbenzene	91	16.136	16.137	(1.029)	715907	20.0000	22.2	
94	sec-Butylbenzene	105	15.228	15.229	(0.971)	757091	20.0000	22.0	
95	1,2-Dichlorobenzene	146	16.387	16.387	(1.045)	250421	20.0000	20.6	
96	1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	31763	20.0000	20.1	
97	1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	191513	20.0000	19.8	
98	Hexachlorobutadiene	225	18.904	18.904	(1.205)	83590	20.0000	19.3	
99	1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	151028	20.0000	19.4	
100	1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	602566	20.0000	21.3	
101	Naphthalene	128	19.533	19.533	(1.245)	364582	20.0000	20.8	
102	1,2,3-Trichlorobenzene	180	19.869	19.869	(1.267)	115932	20.0000	18.3	
103	Methyl Acetate	43	5.140	5.133	(0.628)	132850	20.0000	19.5	
104	Methylcyclohexane	83	8.772	8.772	(1.073)	252286	20.0000	21.4	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-Bromomethane (2.816)
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-Trichlorofluoromethane (3.167)
-Diethyl Ether (3.603)
-1,1-Dichloroethene (3.882)+
-Iodomethane (4.089)
-Acrolein (4.411)
-Allyl Chloride (4.632)
-MetMylene Chloride (4.811)+
-trans-1,2-Dichloroethene (5.090)+
-Methyl tert-butyl ether (5.290)
-Tertiary-butyl alcohol (5.490)
-Acetonitrile (5.698)
-Di-isopropyl ether (5.941)
-Chloroprene (6.070)+
-Acrylonitrile (6.198)
-Ethyl tertiary-butyl ethe (6.499)+
-cis-1,2-Dichloroethene (6.913)
-2,2-Dichloropropane (7.056)
-Bromochloromethane (7.178)+
-Chloroform (7.299)
-Carbon Tetrachloride (7.464)+
-1,1,1-Trichloroethane (7.564)
-2-Butanone (7.728)
-Propionitrile (8.050)+
Pentafluorobenzene (8.179)+
-Isobutyl Alcohol (8.379)+
-Trichloroethene (8.779)+
-1,4-Difluorobenzene (8.837)
-Methyl Methacrylate (9.702)+
-2-Chloroethylvinylether (10.181)
cis-1,3-dichloropropene (10.245)
-Toluene-D8 (10.452)+
Toluene (10.510)
-1,1-Dichloropropene (10.960)+
-Ethyl Methacrylate (11.189)+
-Dibromochloromethane (11.411)
-1,3-Dichloropropane (11.525)
-1,2-Dibromoethane (11.697)
-2-Hexanone (11.976)
1,1,1,2-Tetrachloroethane (12.440)
-m+p-Xylenes (12.583)
Chlorobenzene-D5 (12.333)+
-o-Xylene (13.455)
Styrene (13.527)+
-Isopropylbenzene (13.591)
-trans-1,4-Dichloro-2-butene (14.444)
-1,1,2,2-Tetrachloroethane (14.292)
-4-Bromofluorobenzene (14.392)
-4-Chlorotoluene (14.664)
-1,2,4-Trimethylbenzene (14.478)+
-tert-Butylbenzene (14.957)+
-1,2,4-Trimethylbenzene (15.064)
-sec-Butylbenzene (15.229)
-P-Isopropyltoluene (15.458)
-1,3-Dichlorobenzene (15.572)
1,4-Dichlorobenzene-D4 (15.686)+
-1,2-Dichloroethylene (tot (16.080)
-N-Butylbenzene (16.137)
-1,2-Dichlorobenzene (16.387)
-1,2-Dibromo-3-Chloropropa (17.746)
1,3,5-Trichlorobenzene (17.803)
-Hexachlorobutadiene (18.904)+
-Naphthalene (19.533)
-1,2,3-Trichlorobenzene (19.869)
Xylenes (total) (21.380)
Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D
Date : 13-NOV-2013 11:35
Client ID: Initial Calibration
Sample Info: WG134365-3
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\Target_server\gg\chem\gcms-c.i\C111313.b\C4231.D

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4232.D
Report Date: 14-Nov-2013 07:11

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gcms-c.i\C111313.b\C4232.D
Lab Smp Id: WG134365-2 Client Smp ID: Initial Calibration
Inj Date : 13-NOV-2013 12:07
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-2
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:07 Cal File: C4232.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260FULL-LD-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

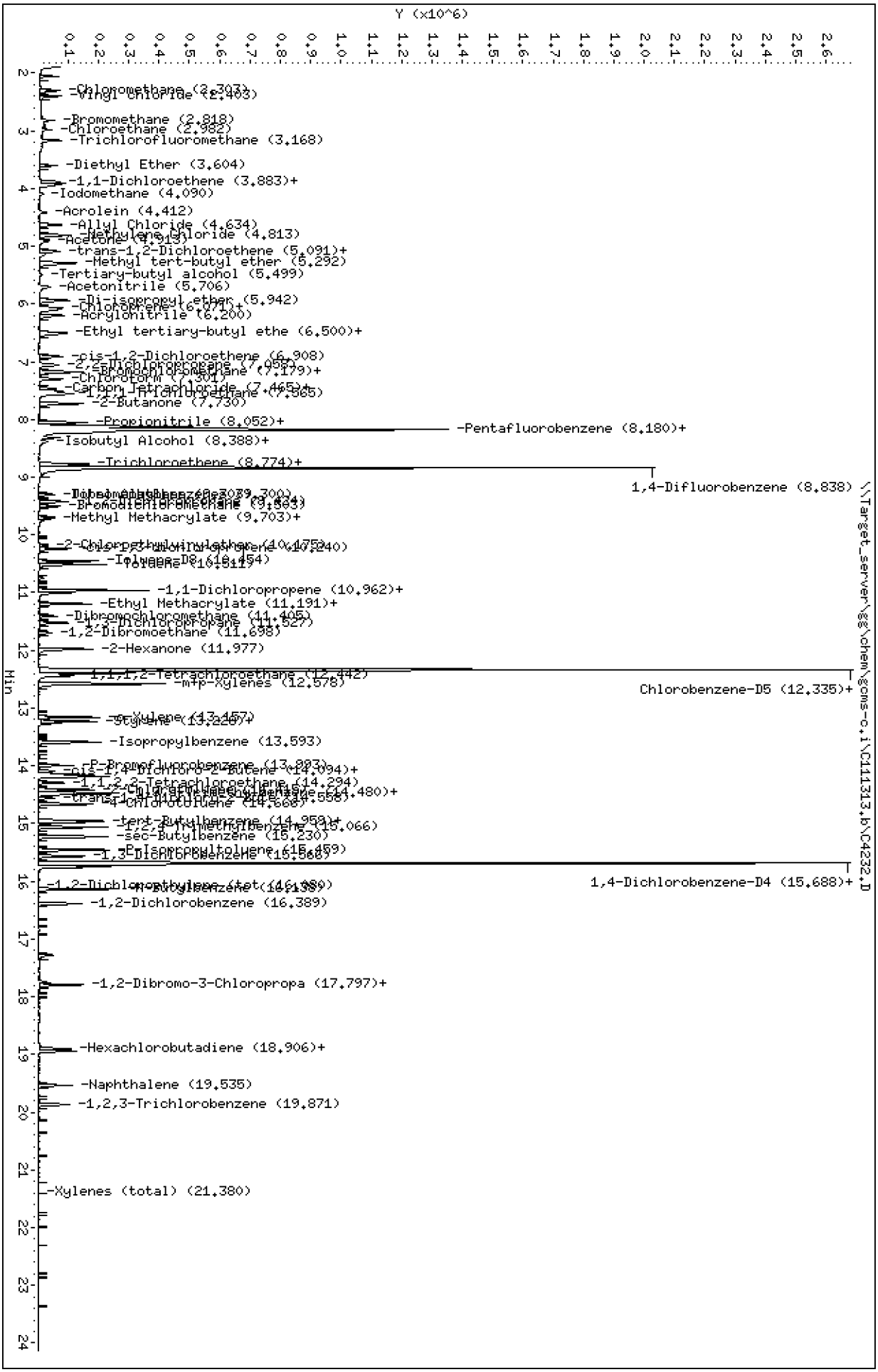
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.052	2.051	(0.251)	44589	5.00000	4.5	
2	Chloromethane	50	2.295	2.301	(0.281)	72806	5.00000	5.8	
3	Vinyl chloride	62	2.403	2.401	(0.294)	52632	5.00000	5.6	
4	Bromomethane	94	2.817	2.816	(0.344)	25538	5.00000	5.2	
5	Chloroethane	64	2.982	2.980	(0.365)	22984	5.00000	4.1	
6	Trichlorofluoromethane	101	3.168	3.166	(0.387)	51477	5.00000	5.3	
7	Diethyl Ether	59	3.604	3.602	(0.441)	31322	5.00000	5.5	
8	Tertiary-butyl alcohol	59	5.499	5.490	(0.672)	16611	25.0000	30.1	
9	1,1-Dichloroethene	96	3.883	3.881	(0.475)	24774	5.00000	5.1	
10	Carbon Disulfide	76	3.918	3.917	(0.479)	96894	5.00000	5.1	
11	Freon-113	151	3.954	3.946	(0.483)	15692	5.00000	5.1	
12	Iodomethane	142	4.090	4.089	(0.500)	19761	5.00000	4.2	
13	Acrolein	56	4.412	4.410	(0.539)	28478	25.0000	24.4	
14	Methylene Chloride	84	4.812	4.811	(0.588)	69140	5.00000	5.6	
15	Acetone	43	4.912	4.904	(0.601)	59859	25.0000	25.1	
16	Isobutyl Alcohol	43	8.387	8.379	(1.025)	24576	100.000	92.2	
17	trans-1,2-Dichloroethene	96	5.084	5.090	(0.622)	30976	5.00000	4.8	
18	Allyl Chloride	41	4.626	4.632	(0.566)	64992	5.00000	5.3	
19	Methyl tert-butyl ether	73	5.298	5.290	(0.648)	170742	10.0000	10.1	
20	Acetonitrile	39	5.706	5.697	(0.698)	9528	50.0000	40.7	
21	Di-isopropyl ether	45	5.942	5.940	(0.726)	123151	5.00000	5.1	
22	Chloroprene	53	6.071	6.069	(0.742)	52829	5.00000	5.3	
23	Propionitrile	54	8.108	8.106	(0.991)	60988	50.0000	54.8	
24	Methacrylonitrile	41	8.130	8.128	(0.994)	274360	50.0000	51.0	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4232.D
Report Date: 14-Nov-2013 07:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.106	6.105	(0.747)	68074	5.00000	5.4	
	26 Acrylonitrile	52	6.199	6.198	(0.758)	64733	25.0000	26.8	
	27 Ethyl tertiary-butyl ether	59	6.500	6.498	(0.795)	92232	5.00000	4.8	
	28 Vinyl Acetate	43	6.528	6.520	(0.739)	68293	5.00000	4.8	
	29 cis-1,2-Dichloroethene	96	6.907	6.913	(0.844)	36618	5.00000	5.0	
	31 Methyl Methacrylate	41	9.703	9.694	(1.098)	30321	5.00000	4.8	
	32 2,2-Dichloropropane	77	7.057	7.056	(0.863)	46727	5.00000	4.9	
	33 Bromochloromethane	128	7.186	7.185	(0.879)	13347	5.00000	4.6	
	34 Chloroform	83	7.300	7.299	(0.892)	65631	5.00000	5.2	
	35 Carbon Tetrachloride	117	7.465	7.463	(0.845)	40167	5.00000	4.8	
	36 Tetrahydrofuran	42	7.508	7.506	(0.918)	58185	25.0000	26.0	
$	37 Dibromofluoromethane	113	7.544	7.549	(0.922)	30652	5.00000	4.9	
	38 1,1,1-Trichloroethane	97	7.565	7.564	(0.925)	55817	5.00000	5.2	
	39 1,1-Dichloropropene	75	11.004	11.003	(1.245)	49512	5.00000	4.9	
	40 2-Butanone	43	7.722	7.721	(0.944)	86477	25.0000	25.1	
	41 Benzene	78	8.051	8.057	(0.911)	143618	5.00000	5.3	
*	42 Pentafluorobenzene	168	8.180	8.178	(1.000)	815606	50.0000		
	43 Cyclohexane	56	7.179	7.170	(0.878)	53984	5.00000	4.8	
	44 Ethyl Methacrylate	69	11.190	11.189	(1.266)	42969	5.00000	4.9	
$	45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.006)	36948	5.00000	5.5	
	46 Tertiary-amyl methyl ether	73	8.216	8.214	(1.004)	79108	5.00000	4.8	
	47 1,2-Dichloroethane	62	8.316	8.314	(0.941)	42957	5.00000	5.2	
	48 Trichloroethene	95	8.788	8.786	(0.994)	33172	5.00000	5.1	
*	49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1475429	50.0000		
	50 Dibromomethane	93	9.302	9.301	(1.053)	23130	5.00000	5.1	
	51 1,2-Dichloropropane	63	9.424	9.423	(1.066)	36009	5.00000	5.1	
	52 Bromodichloromethane	83	9.503	9.501	(1.075)	48653	5.00000	5.0	
	53 cis-1,3-dichloropropene	75	10.246	10.245	(1.159)	57296	5.00000	4.8	
	54 1,4-Dioxane	88	9.746	9.737	(1.103)	10900	100.000	128	
$	55 Toluene-D8	98	10.454	10.452	(1.183)	115351	5.00000	5.4	
	56 2-Chloroethylvinylether	63	10.175	10.181	(1.151)	13205	5.00000	4.6	
	57 Toluene	92	10.511	10.509	(1.189)	90650	5.00000	5.4	
	58 4-methyl-2-pentanone	43	10.961	10.960	(1.240)	183421	25.0000	28.0	
	59 Tetrachloroethene	164	10.954	10.960	(0.888)	24981	5.00000	5.2	
	60 trans-1,3-Dichloropropene	75	11.004	11.003	(1.245)	49512	5.00000	4.9	
	61 1,1,2-Trichloroethane	83	11.190	11.196	(1.266)	28095	5.00000	5.1	
	62 Dibromochloromethane	129	11.405	11.410	(0.925)	31739	5.00000	4.7	
	63 1,3-Dichloropropane	76	11.526	11.525	(0.934)	58165	5.00000	4.9	
	64 1,2-Dibromoethane	107	11.691	11.696	(1.323)	32747	5.00000	5.0	
	65 2-Hexanone	43	11.977	11.975	(0.971)	131783	25.0000	26.8	
*	66 Chlorobenzene-D5	117	12.334	12.340	(1.000)	1430298	50.0000		
	67 Chlorobenzene	112	12.363	12.361	(1.002)	87137	5.00000	5.2	
	152 1-Chlorohexane	91	12.327	12.326	(0.999)	58875	5.00000	5.0	
	68 Ethylbenzene	106	12.391	12.390	(1.005)	52597	5.00000	5.3	
	69 1,1,1,2-Tetrachloroethane	131	12.441	12.440	(1.009)	30342	5.00000	4.7	
	71 m+p-Xylenes	106	12.584	12.583	(1.020)	124006	10.0000	10.7	
	72 o-Xylene	106	13.156	13.155	(1.067)	55472	5.00000	5.1	
	73 Styrene	104	13.228	13.226	(1.072)	101531	5.00000	5.1	
	74 Bromoform	173	13.271	13.269	(1.076)	19424	5.00000	4.4	
	75 Isopropylbenzene	105	13.593	13.591	(0.866)	160290	5.00000	5.6	
$	76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	50795	5.00000	5.0	
	77 cis-1,4-Dichloro-2-Butene	53	14.093	14.092	(0.898)	14062	5.00000	5.1	
	78 trans-1,4-Dichloro-2-Butene	53	14.558	14.556	(0.928)	12127	5.00000	4.9	
	79 Bromobenzene	156	14.143	14.149	(0.902)	34761	5.00000	5.0	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4232.D
Report Date: 14-Nov-2013 07:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.186	14.185	(0.904)	211162	5.00000	5.7	
81	1,1,2,2-Tetrachloroethane	83	14.293	14.292	(0.911)	48678	5.00000	5.1	
82	1,3,5-Trimethylbenzene	105	14.472	14.478	(0.923)	150265	5.00000	5.6	
83	2-Chlorotoluene	91	14.415	14.413	(0.919)	125310	5.00000	5.5	
84	1,2,3-Trichloropropane	75	14.493	14.492	(0.924)	41636	5.00000	5.5	
85	4-Chlorotoluene	91	14.665	14.664	(0.935)	125560	5.00000	5.3	
86	tert-Butylbenzene	119	14.958	14.957	(0.954)	133351	5.00000	5.4	
87	Pentachloroethane	117	14.987	14.985	(0.955)	31293	5.00000	5.3	
88	1,2,4-Trimethylbenzene	105	15.065	15.064	(0.960)	145264	5.00000	5.5	
89	P-Isopropyltoluene	119	15.459	15.457	(0.985)	145204	5.00000	5.6	
90	1,3-Dichlorobenzene	146	15.573	15.572	(0.993)	65697	5.00000	5.2	
* 91	1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	742193	50.0000		
92	1,4-Dichlorobenzene	146	15.709	15.708	(1.001)	71004	5.00000	5.1	
93	N-Butylbenzene	91	16.138	16.137	(1.029)	171119	5.00000	5.6	
94	sec-Butylbenzene	105	15.230	15.229	(0.971)	182313	5.00000	5.6	
95	1,2-Dichlorobenzene	146	16.388	16.387	(1.045)	59000	5.00000	5.1	
96	1,2-Dibromo-3-Chloropropane	75	17.747	17.745	(1.131)	7821	5.00000	5.2	
97	1,3,5-Trichlorobenzene	180	17.797	17.803	(1.134)	46935	5.00000	5.1	
98	Hexachlorobutadiene	225	18.905	18.904	(1.205)	22710	5.00000	5.5	
99	1,2,4-Trichlorobenzene	180	18.941	18.947	(1.207)	37172	5.00000	5.0	
100	1,2,3-Trimethylbenzene	105	15.752	15.750	(1.004)	147885	5.00000	5.5	
101	Naphthalene	128	19.534	19.533	(1.245)	93094	5.00000	5.6	
102	1,2,3-Trichlorobenzene	180	19.870	19.869	(1.267)	32434	5.00000	5.9	
103	Methyl Acetate	43	5.141	5.133	(0.629)	33661	5.00000	5.1	
104	Methylcyclohexane	83	8.773	8.772	(1.073)	55823	5.00000	4.9	



Data File: \\Target_server\gg\chem\gcms-c,i\C111313,b\C4232.D
Date : 13-NOV-2013 12:07
Client ID: Initial Calibration
Sample Info: WG134365-2
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c,i
Operator: REC
Column diameter: 0.18

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4233.D
Report Date: 14-Nov-2013 07:11

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gcms-c.i\C111313.b\C4233.D
Lab Smp Id: WG134365-1 Client Smp ID: Initial Calibration
Inj Date : 13-NOV-2013 12:38
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-1
Misc Info :
Comment : SW846 5030
Method : \\Target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

WAS
12:30 pm, Dec 02, 2013

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.053	2.051	(0.251)	5606	1.00000	0.33(a)	
2	Chloromethane	50	2.296	2.301	(0.281)	13856	1.00000	1.1	
3	Vinyl chloride	62	2.404	2.401	(0.294)	8425	1.00000	0.92(a)	
4	Bromomethane	94	2.818	2.816	(0.345)	5218	1.00000	1.1	
5	Chloroethane	64	2.983	2.980	(0.365)	6067	1.00000	1.6	
6	Trichlorofluoromethane	101	3.169	3.166	(0.387)	6711	1.00000	0.70(a)	
7	Diethyl Ether	59	3.605	3.602	(0.441)	5344	1.00000	0.96(a)	
8	Tertiary-butyl alcohol	59	5.492	5.490	(0.671)	5153	5.00000	12.6(M)	M9
9	1,1-Dichloroethene	96	3.884	3.881	(0.475)	4847	1.00000	1.0	
10	Carbon Disulfide	76	3.912	3.917	(0.478)	23792	1.00000	1.3	
11	Freon-113	151	3.941	3.946	(0.482)	2225	1.00000	0.73(aM)	M9
12	Iodomethane	142	4.098	4.089	(0.501)	3772	1.00000	0.81(aM)	M6
13	Acrolein	56	4.420	4.410	(0.540)	5835	5.00000	5.1	
14	Methylene Chloride	84	4.813	4.811	(0.588)	40543	1.00000	1.7(a)	
15	Acetone	43	4.913	4.904	(0.601)	13512	5.00000	5.8(M)	M9
16	Isobutyl Alcohol	43	8.395	8.379	(1.026)	4374	20.0000	16.8(aM)	M9
17	trans-1,2-Dichloroethene	96	5.085	5.090	(0.622)	6944	1.00000	1.1	
18	Allyl Chloride	41	4.634	4.632	(0.567)	10984	1.00000	0.92(a)	
19	Methyl tert-butyl ether	73	5.292	5.290	(0.647)	30537	2.00000	1.8	
20	Acetonitrile	39	5.707	5.697	(0.698)	2642	10.0000	11.5(aM)	M9
21	Di-isopropyl ether	45	5.936	5.940	(0.726)	21731	1.00000	0.92(a)	
22	Chloroprene	53	6.072	6.069	(0.742)	8657	1.00000	0.88(a)	
23	Propionitrile	54	8.109	8.106	(0.991)	10296	10.0000	9.4(a)	
24	Methacrylonitrile	41	8.131	8.128	(0.994)	49044	10.0000	14.1	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4233.D
Report Date: 14-Nov-2013 07:11

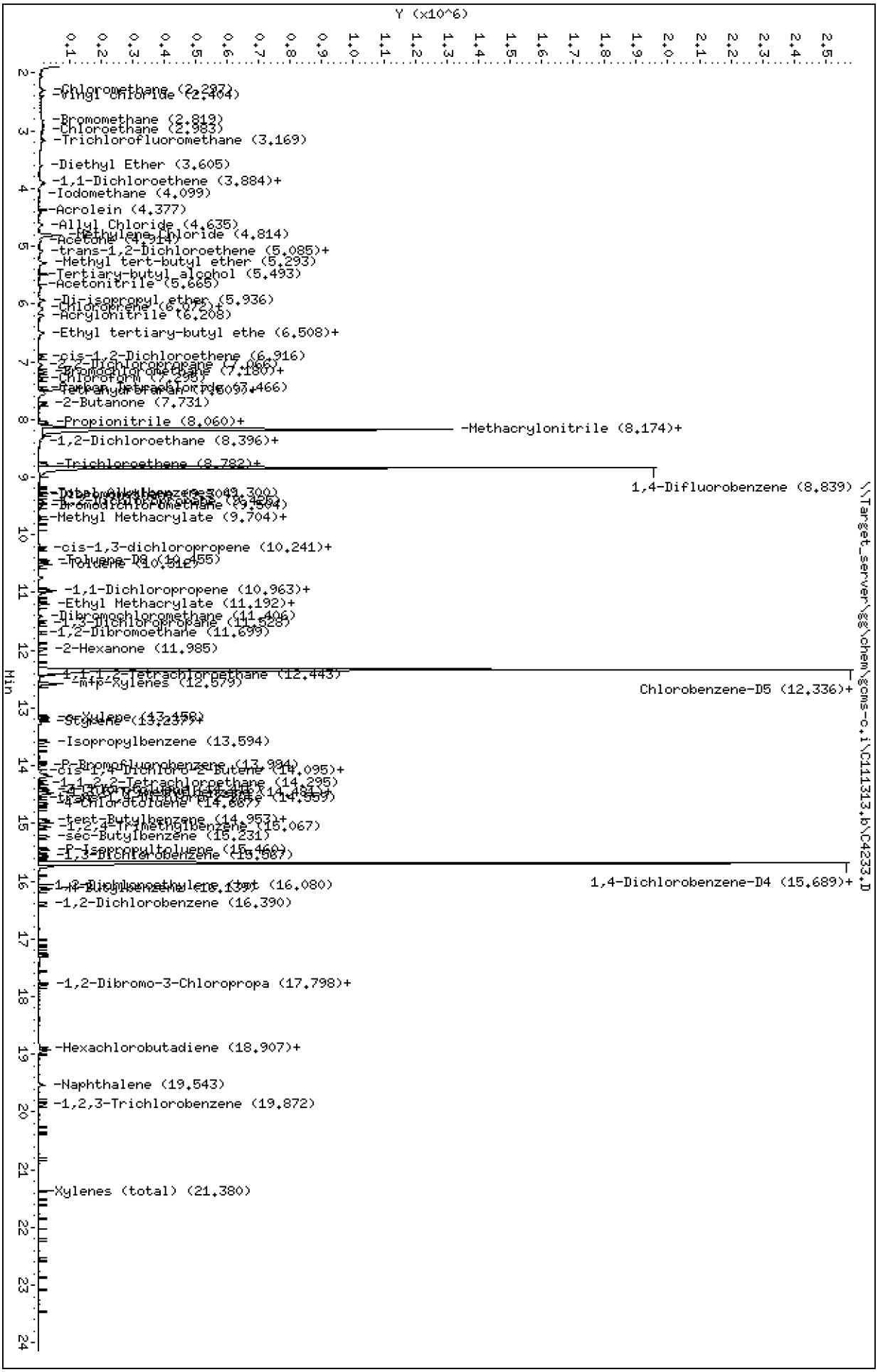
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.107	6.105	(0.747)	12116	1.00000	0.98(a)	
	26 Acrylonitrile	52	6.207	6.198	(0.759)	11220	5.00000	4.7(a)	
	27 Ethyl tertiary-butyl ether	59	6.508	6.498	(0.795)	16352	1.00000	0.87(a)	
	28 Vinyl Acetate	43	6.536	6.520	(0.740)	12025	1.00000	0.86(aM)	M9
	29 cis-1,2-Dichloroethene	96	6.915	6.913	(0.845)	7220	1.00000	1.0	
M	30 1,2-Dichloroethylene (total)	96				14164	1.00000	(a)	
	31 Methyl Methacrylate	41	9.704	9.694	(1.098)	5209	1.00000	0.83(a)	
	32 2,2-Dichloropropane	77	7.065	7.056	(0.864)	7841	1.00000	0.84(aM)	M6
	33 Bromochloromethane	128	7.187	7.185	(0.879)	3176	1.00000	1.1	
	34 Chloroform	83	7.301	7.299	(0.893)	12460	1.00000	1.0	
	35 Carbon Tetrachloride	117	7.473	7.463	(0.845)	6554	1.00000	0.80(a)	
	36 Tetrahydrofuran	42	7.516	7.506	(0.919)	10889	5.00000	5.0	
$	37 Dibromofluoromethane	113	7.545	7.549	(0.922)	6670	1.00000	1.1	
	38 1,1,1-Trichloroethane	97	7.566	7.564	(0.925)	9428	1.00000	0.90(a)	
	39 1,1-Dichloropropene	75	11.005	11.003	(1.245)	8281	1.00000	0.84(a)	
	40 2-Butanone	43	7.738	7.721	(0.946)	15763	5.00000	4.7(aM)	M9
	41 Benzene	78	8.059	8.057	(0.912)	28740	1.00000	1.1	
*	42 Pentafluorobenzene	168	8.181	8.178	(1.000)	797954	50.0000		
	43 Cyclohexane	56	7.180	7.170	(0.878)	9347	1.00000	0.85(a)	
	44 Ethyl Methacrylate	69	11.198	11.189	(1.267)	6519	1.00000	0.76(a)	
$	45 1,2-Dichloroethane-D4	65	8.231	8.228	(1.006)	6902	1.00000	1.0	
	46 Tertiary-amyl methyl ether	73	8.224	8.214	(1.005)	14150	1.00000	0.87(a)	
	47 1,2-Dichloroethane	62	8.317	8.314	(0.941)	8292	1.00000	1.0	WAS
	48 Trichloroethene	95	8.796	8.786	(0.995)	5945	1.00000	0.93(a)	
*	49 1,4-Difluorobenzene	114	8.839	8.836	(1.000)	1446880	50.0000		*12:31 pm, Dec 02, 2013*
	50 Dibromomethane	93	9.303	9.301	(1.053)	4982	1.00000	1.1	
	51 1,2-Dichloropropane	63	9.425	9.423	(1.066)	6293	1.00000	0.92(aM)	M6
	52 Bromodichloromethane	83	9.504	9.501	(1.075)	9439	1.00000	0.99(a)	
	53 cis-1,3-dichloropropene	75	10.240	10.245	(1.159)	11054	1.00000	0.94(a)	
	54 1,4-Dioxane	88	9.754	9.737	(1.104)	1132	20.0000	62.3	
$	55 Toluene-D8	98	10.455	10.452	(1.183)	22240	1.00000	1.0	
	56 2-Chloroethylvinylether	63	10.176	10.181	(1.151)	2220	1.00000	0.79(a)	
	57 Toluene	92	10.512	10.509	(1.189)	16660	1.00000	1.0	
	58 4-methyl-2-pentanone	43	10.962	10.960	(1.240)	30242	5.00000	4.7(a)	
	59 Tetrachloroethene	164	10.948	10.960	(0.888)	4039	1.00000	0.85(a)	
	60 trans-1,3-Dichloropropene	75	11.005	11.003	(1.245)	8281	1.00000	0.84(a)	
	61 1,1,2-Trichloroethane	83	11.191	11.196	(1.266)	5465	1.00000	1.0	
	62 Dibromochloromethane	129	11.406	11.410	(0.925)	5308	1.00000	0.80(a)	
	63 1,3-Dichloropropane	76	11.527	11.525	(0.935)	11782	1.00000	1.0	
	64 1,2-Dibromoethane	107	11.699	11.696	(1.324)	6243	1.00000	0.97(aM)	M6
	65 2-Hexanone	43	11.985	11.975	(0.972)	21096	5.00000	4.4(a)	
*	66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	1403208	50.0000		
	67 Chlorobenzene	112	12.364	12.361	(1.002)	17204	1.00000	1.0	
	152 1-Chlorohexane	91	12.328	12.326	(0.999)	13039	1.00000	1.1	
	68 Ethylbenzene	106	12.399	12.390	(1.005)	8838	1.00000	0.90(a)	
	69 1,1,1,2-Tetrachloroethane	131	12.442	12.440	(1.009)	6080	1.00000	0.96(a)	
M	70 Xylenes (total)	106				29560	5.00000	(a)	
	71 m+p-Xylenes	106	12.585	12.583	(1.020)	21087	2.00000	1.8(a)	
	72 o-Xylene	106	13.165	13.155	(1.067)	8473	1.00000	0.79(a)	
	73 Styrene	104	13.236	13.226	(1.073)	15926	1.00000	0.82(a)	
	74 Bromoform	173	13.279	13.269	(1.077)	3648	1.00000	0.84(aM)	M6
	75 Isopropylbenzene	105	13.594	13.591	(0.866)	26305	1.00000	0.93(a)	
$	76 P-Bromofluorobenzene	95	13.994	13.992	(1.583)	10768	1.00000	1.1	
	77 cis-1,4-Dichloro-2-Butene	53	14.094	14.092	(0.898)	2272	1.00000	0.83(a)	

Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4233.D
Report Date: 14-Nov-2013 07:11

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.559	14.556	(0.928)	1947	1.00000	0.79(a)	
	79	Bromobenzene	156	14.144	14.149	(0.902)	6957	1.00000	1.0	
	80	N-Propylbenzene	91	14.187	14.185	(0.904)	36443	1.00000	1.00	
	81	1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	9779	1.00000	1.0	
	82	1,3,5-Trimethylbenzene	105	14.473	14.478	(0.923)	24314	1.00000	0.92(a)	
	83	2-Chlorotoluene	91	14.416	14.413	(0.919)	20821	1.00000	0.93(a)	
	84	1,2,3-Trichloropropane	75	14.494	14.492	(0.924)	8160	1.00000	1.1	
	85	4-Chlorotoluene	91	14.666	14.664	(0.935)	25015	1.00000	1.1	
	86	tert-Butylbenzene	119	14.952	14.957	(0.953)	22094	1.00000	0.90(a)	
	87	Pentachloroethane	117	14.995	14.985	(0.956)	4827	1.00000	0.83(a)	
	88	1,2,4-Trimethylbenzene	105	15.066	15.064	(0.960)	23139	1.00000	0.88(a)	
	89	P-Isopropyltoluene	119	15.460	15.457	(0.985)	21661	1.00000	0.84(a)	
	90	1,3-Dichlorobenzene	146	15.574	15.572	(0.993)	13074	1.00000	1.0	
*	91	1,4-Dichlorobenzene-D4	152	15.689	15.686	(1.000)	734269	50.0000		
	92	1,4-Dichlorobenzene	146	15.710	15.708	(1.001)	15446	1.00000	1.1	
	93	N-Butylbenzene	91	16.139	16.137	(1.029)	27575	1.00000	0.92(a)	
	94	sec-Butylbenzene	105	15.231	15.229	(0.971)	29566	1.00000	0.92(a)	
	95	1,2-Dichlorobenzene	146	16.389	16.387	(1.045)	11612	1.00000	1.0	
	96	1,2-Dibromo-3-Chloropropane	75	17.748	17.745	(1.131)	1391	1.00000	0.94(a)	
	97	1,3,5-Trichlorobenzene	180	17.805	17.803	(1.135)	9811	1.00000	1.1	
	98	Hexachlorobutadiene	225	18.906	18.904	(1.205)	4312	1.00000	1.1	
	99	1,2,4-Trichlorobenzene	180	18.949	18.947	(1.208)	8562	1.00000	1.2	
	100	1,2,3-Trimethylbenzene	105	15.753	15.750	(1.004)	26860	1.00000	1.0	
	101	Naphthalene	128	19.542	19.533	(1.246)	16475	1.00000	1.0	
	102	1,2,3-Trichlorobenzene	180	19.871	19.869	(1.267)	6916	1.00000	2.0	
	103	Methyl Acetate	43	5.142	5.133	(0.629)	6552	1.00000	1.0	
	104	Methylcyclohexane	83	8.767	8.772	(1.072)	8523	1.00000	0.76(a)	
M	153	Total Alkylbenzenes	100				184792	1.00000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\Target_server\gg\chem\gcms-c.i\C111313.b\C4233.D
Date : 13-NOV-2013 12:38
Client ID: Initial Calibration
Sample Info: WG134365-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.287)
-Vinyl Chloride (2.404)
-Bromomethane (2.813)
-Chloroethane (2.983)
-Trichlorofluoromethane (3.169)
-Diethyl Ether (3.605)
-1,1-Dichloroethene (3.884)+
-Iodomethane (4.099)
-Acrolein (4.377)
-Allyl Chloride (4.635)
-Methylene Chloride (4.814)
-Acetone (4.914)
-trans-1,2-Dichloroethene (5.085)+
-Methyl tert-butyl ether (5.293)
-Tertiary-butyl alcohol (5.493)
-Acetonitrile (5.665)
-Diisopropyl ether (5.936)
-Chloroprene (6.075)+
-Acrylonitrile (6.208)
-Ethyl tertiary-butyl ethe (6.508)+
-cis-1,2-Dichloroethene (6.916)
-2,2-Dichloropropane (7.066)
-Bromochloromethane (7.180)+
-Chloroform (7.298)
-Carbon Tetrachloride (7.466)
-2-Butanone (7.731)
-Propionitrile (8.060)+
-Methacrylonitrile (8.174)+
-1,2-Dichloroethane (8.396)+
-Trichloroethene (8.782)+
1,4-Difluorobenzene (8.839)
-Dibromomethane (9.049,300)
-1,2-Dichloropropane (9.154)
-Bromodichloromethane (9.504)
-Methyl Methacrylate (9.704)+
-cis-1,3-dichloropropene (10.241)+
-Toluene-D8 (10.455)
-Toluene (10.512)
-1,1-Dichloropropene (10.963)+
-Ethyl Methacrylate (11.192)+
-Dibromochloromethane (11.406)
-1,3-Dichloropropane (11.528)
-1,2-Dibromoethane (11.699)
-2-Hexanone (11.985)
-1,1,1,2-Tetrachloroethane (12.443)
-m+p-Xylenes (12.579)
Chlorobenzene-D5 (12.336)+
-o-Xylene (13.158)
-Styrene (13.237)+
-Isopropylbenzene (13.594)
-P-Bromofluorobenzene (13.934)
-cis-1,4-Dichloro-2-Butene (14.095)+
-1,1,2,2-Tetrachloroethane (14.295)
-4-Ethyltoluene (14.481)+
-4-Chlorotoluene (14.607)
-tert-Butylbenzene (14.957)+
-1,2,4-Trimethylbenzene (15.067)
-sec-Butylbenzene (15.231)
-P-Isopropyltoluene (15.460)
-1,3-Dichlorobenzene (15.587)
-n-Butylbenzene (15.739)
1,4-Dichlorobenzene-D4 (15.689)+
-1,2-Dichlorobenzene (16.390)
-1,2-Dibromo-3-Chloropropa (17.798)+
-Hexachlorobutadiene (18.907)+
-Naphthalene (19.543)
-1,2,3-Trichlorobenzene (19.872)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Report Date: 15-Nov-2013 10:02

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Lab Smp Id: WG134365-7 Client Smp ID: WG134365-LCS
Inj Date : 13-NOV-2013 13:25
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134365-7,SG8848
Misc Info : WG134365,WG134365-4,SG8848-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C111313.b\C826A90.m
Meth Date : 14-Nov-2013 07:02 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 7 QC Sample: IND CHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.050	2.051	(0.251)	317991	34.2920	34.3(R)	
2	Chloromethane	50	2.301	2.301	(0.281)	502244	40.2334	40.2	
3	Vinyl chloride	62	2.401	2.401	(0.294)	404161	43.5603	43.6	
4	Bromomethane	94	2.815	2.816	(0.344)	210477	43.3630	43.4	
5	Chloroethane	64	2.980	2.980	(0.364)	135087	31.5331	31.5(R)	
6	Trichlorofluoromethane	101	3.166	3.166	(0.387)	469465	48.6560	48.6	
7	Diethyl Ether	59	3.602	3.602	(0.440)	283995	50.2129	50.2	
8	Tertiary-butyl alcohol	59	5.490	5.490	(0.671)	157769	249.779	250	
9	1,1-Dichloroethene	96	3.881	3.881	(0.475)	296950	61.2064	61.2(R)	
10	Carbon Disulfide	76	3.917	3.917	(0.479)	1086856	57.9195	57.9	
11	Freon-113	151	3.945	3.946	(0.482)	163129	53.1001	53.1	
12	Iodomethane	142	4.095	4.089	(0.501)	267037	56.9441	56.9	
13	Acrolein	56	4.410	4.410	(0.539)	293871	253.626	254	
14	Methylene Chloride	84	4.810	4.811	(0.588)	432349	56.9093	56.9	
15	Acetone	43	4.910	4.904	(0.600)	167775	70.9583	71.0(R)	
16	Isobutyl Alcohol	43	8.378	8.379	(1.024)	289052	1093.62	1090	
17	trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	340527	53.2788	53.3	
18	Allyl Chloride	41	4.632	4.632	(0.566)	620346	51.3726	51.4	
19	Methyl tert-butyl ether	73	5.289	5.290	(0.647)	1803818	107.732	108	
20	Acetonitrile	39	5.697	5.697	(0.697)	124774	538.035	538	
21	Di-isopropyl ether	45	5.933	5.940	(0.725)	1264600	52.6355	52.6	
22	Chloroprene	53	6.069	6.069	(0.742)	524493	52.6920	52.7	
23	Propionitrile	54	8.107	8.106	(0.991)	579945	525.583	526	
24	Methacrylonitrile	41	8.128	8.128	(0.994)	2382102	508.244	508	

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Report Date: 15-Nov-2013 10:02

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.105	6.105	(0.746)	683350	54.3168	54.3	
	26 Acrylonitrile	52	6.197	6.198	(0.758)	624993	260.630	261	
	27 Ethyl tertiary-butyl ether	59	6.498	6.498	(0.795)	1008348	52.8340	52.8	
	28 Vinyl Acetate	43	6.519	6.520	(0.738)	979334	67.5248	67.5(R)	
	29 cis-1,2-Dichloroethene	96	6.912	6.913	(0.845)	378643	52.7724	52.8	
M	30 1,2-Dichloroethylene (total)	96				719170	106.051	106	
	31 Methyl Methacrylate	41	9.694	9.694	(1.097)	349015	53.6096	53.6	
	32 2,2-Dichloropropane	77	7.055	7.056	(0.863)	513520	54.5077	54.5	
	33 Bromochloromethane	128	7.184	7.185	(0.878)	150584	52.6398	52.6	
	34 Chloroform	83	7.299	7.299	(0.892)	668566	53.1688	53.2	
	35 Carbon Tetrachloride	117	7.463	7.463	(0.845)	474849	55.7487	55.7	
	36 Tetrahydrofuran	42	7.506	7.506	(0.918)	116703	52.5338	52.5	
$	37 Dibromofluoromethane	113	7.542	7.549	(0.922)	302589	49.0705	49.1	
	38 1,1,1-Trichloroethane	97	7.563	7.564	(0.925)	573925	54.0428	54.0	
	39 1,1-Dichloropropene	75	11.002	11.003	(1.245)	554443	53.9352	53.9	
	40 2-Butanone	43	7.720	7.721	(0.944)	207115	60.5866	60.6(R)	
	41 Benzene	78	8.049	8.057	(0.911)	1461133	52.6724	52.7	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	808491	50.0000		
	43 Cyclohexane	56	7.170	7.170	(0.877)	711253	63.8668	63.9(R)	
	44 Ethyl Methacrylate	69	11.188	11.189	(1.266)	474403	52.9642	53.0	
$	45 1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	316182	47.3169	47.3	
	46 Tertiary-amyl methyl ether	73	8.214	8.214	(1.004)	853721	51.7496	51.7	
	47 1,2-Dichloroethane	62	8.314	8.314	(0.941)	451576	53.3120	53.3	
	48 Trichloroethene	95	8.786	8.786	(0.994)	347810	52.3913	52.4	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1505681	50.0000		
	50 Dibromomethane	93	9.301	9.301	(1.053)	223065	48.4861	48.5	
	51 1,2-Dichloropropane	63	9.422	9.423	(1.066)	392514	54.9270	54.9	
	52 Bromodichloromethane	83	9.501	9.501	(1.075)	541663	54.3964	54.4	
	53 cis-1,3-dichloropropene	75	10.244	10.245	(1.159)	624340	50.9258	50.9	
	54 1,4-Dioxane	88	9.744	9.737	(1.103)	85116	816.602	817	
$	55 Toluene-D8	98	10.452	10.452	(1.183)	1069330	48.6098	48.6	
	56 2-Chloroethylvinylether	63	10.180	10.181	(1.152)	149266	51.2814	51.3	
	57 Toluene	92	10.509	10.509	(1.189)	887703	51.4451	51.4	
	58 4-methyl-2-pentanone	43	10.959	10.960	(1.240)	373088	55.7846	55.8	
	59 Tetrachloroethene	164	10.959	10.960	(0.888)	242067	49.9238	49.9	
	60 trans-1,3-Dichloropropene	75	11.002	11.003	(1.245)	554443	53.9352	53.9	
	61 1,1,2-Trichloroethane	83	11.195	11.196	(1.267)	281598	50.1252	50.1	
	62 Dibromochloromethane	129	11.410	11.410	(0.925)	358558	52.9485	52.9	
	63 1,3-Dichloropropane	76	11.524	11.525	(0.934)	618409	51.7096	51.7	
	64 1,2-Dibromoethane	107	11.696	11.696	(1.324)	340412	50.7099	50.7	
	65 2-Hexanone	43	11.975	11.975	(0.970)	285632	58.0067	58.0	
*	66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1429852	50.0000		
	67 Chlorobenzene	112	12.361	12.361	(1.002)	898361	53.6169	53.6	
	152 1-Chlorohexane	91	12.325	12.326	(0.999)	610290	51.8240	51.8	
	68 Ethylbenzene	106	12.389	12.390	(1.004)	509896	51.0199	51.0	
	69 1,1,1,2-Tetrachloroethane	131	12.440	12.440	(1.008)	326373	50.8111	50.8	
M	70 Xylenes (total)	106				1869426	164.471	164	
	71 m+p-Xylenes	106	12.583	12.583	(1.020)	1251251	107.787	108	
	72 o-Xylene	106	13.155	13.155	(1.066)	618175	56.6835	56.7	
	73 Styrene	104	13.233	13.226	(1.072)	1066706	53.8266	53.8	
	74 Bromoform	173	13.269	13.269	(1.075)	224803	50.6977	50.7	
	75 Isopropylbenzene	105	13.591	13.591	(0.866)	1666310	56.8307	56.8	
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	466270	45.3833	45.4	
	77 cis-1,4-Dichloro-2-Butene	53	14.091	14.092	(0.898)	147147	51.4846	51.5	

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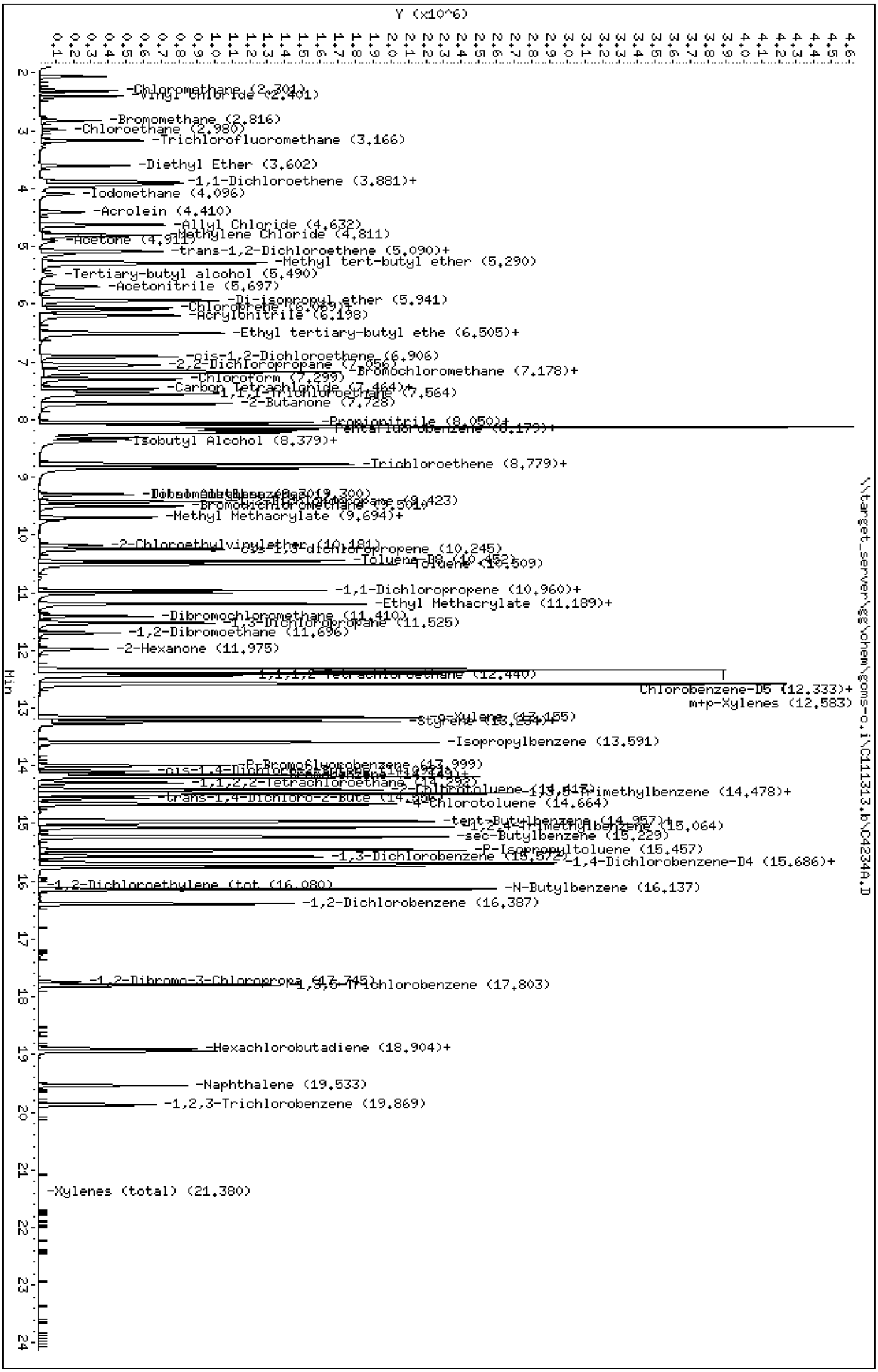
Report Date: 15-Nov-2013 10:02

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.556	14.556	(0.928)	138112	53.7341	53.7	
	79 Bromobenzene	156	14.148	14.149	(0.902)	355317	50.0995	50.1	
	80 N-Propylbenzene	91	14.184	14.185	(0.904)	2195643	57.6566	57.6	
	81 1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	489531	50.2216	50.2	
	82 1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1427886	51.8063	51.8	
	83 2-Chlorotoluene	91	14.413	14.413	(0.919)	1310815	56.2257	56.2	
	84 1,2,3-Trichloropropane	75	14.492	14.492	(0.924)	381283	49.1276	49.1	
	85 4-Chlorotoluene	91	14.663	14.664	(0.935)	1373731	56.3739	56.4	
	86 tert-Butylbenzene	119	14.956	14.957	(0.954)	1411208	55.4054	55.4	
	87 Pentachloroethane	117	14.985	14.985	(0.955)	304763	50.5341	50.5	
	88 1,2,4-Trimethylbenzene	105	15.064	15.064	(0.960)	1466847	53.8424	53.8	
	89 P-Isopropyltoluene	119	15.457	15.457	(0.985)	1527806	56.9415	56.9	
	90 1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	680855	52.7635	52.8	
*	91 1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	764920	50.0000		
	92 1,4-Dichlorobenzene	146	15.714	15.708	(1.002)	696839	48.8142	48.8	
	93 N-Butylbenzene	91	16.136	16.137	(1.029)	1687668	53.7966	53.8	
	94 sec-Butylbenzene	105	15.235	15.229	(0.971)	1930905	57.4991	57.5	
	95 1,2-Dichlorobenzene	146	16.394	16.387	(1.045)	639980	53.9199	53.9	
	96 1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	77809	50.6561	50.6	
	97 1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	454921	48.2667	48.3	
	98 Hexachlorobutadiene	225	18.903	18.904	(1.205)	190533	45.0873	45.1	
	99 1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	332788	43.8597	43.8	
	100 1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	1417197	51.4521	51.4	
	101 Naphthalene	128	19.540	19.533	(1.246)	723896	42.3318	42.3	
	102 1,2,3-Trichlorobenzene	180	19.869	19.869	(1.267)	218983	36.3511	36.4(R)	
	103 Methyl Acetate	43	5.132	5.133	(0.628)	298725	45.5559	45.6	
	104 Methylcyclohexane	83	8.772	8.772	(1.073)	631110	55.5902	55.6	
M	153 Total Alkylbenzenes	100				11647963	386.948	387	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Date : 13-NOV-2013 13:25
Client ID: WG134365-LCS
Sample Info: WG134365-7,SG8848
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C111313.b\C4234A.D
Y (x10^6)
Min
-Chloromethane (2.304)
-Vinyl Chloride (2.401)
-Bromomethane (2.816)
-Chloroethane (2.980)
-Trichlorofluoromethane (3.166)
-Diethyl Ether (3.602)
-1,1-Dichloroethene (3.881)+
-Iodomethane (4.096)
-Acrolein (4.410)
-Allyl Chloride (4.632)
-Methylene Chloride (4.811)
-Acetone (4.911)
-trans-1,2-Dichloroethene (5.090)+
-Methyl tert-butyl ether (5.290)
-Tertiary-butyl alcohol (5.490)
-Acetonitrile (5.697)
-Di-isopropyl ether (5.941)
-Chloroprene (6.089)+
-Acrylonitrile (6.198)
-Ethyl tertiary-butyl ethe (6.505)+
-cis-1,2-Dichloroethene (6.906)
-2,2-Dichloropropane (7.056)
-Bromochloromethane (7.178)+
-Chloroform (7.299)
-Carbon Tetrachloride (7.464)
-1,1,1-Trichloroethane (7.564)
-2-Butanone (7.728)
-Propionitrile (8.050)+
-Pentafluorobenzene (8.179)+
-Isobutyl Alcohol (8.379)+
-Trichloroethene (8.779)+
-Bromochloromethane (9.501)
-Methyl Methacrylate (9.694)+
-2-Chloroethylvinylether (10.181)
-cis-1,3-Dichloropropene (10.245)
-Toluene-D8 (10.452)
-Toluene (10.509)
-1,1-Dichloropropene (10.960)+
-Ethyl Methacrylate (11.189)+
-Dibromochloromethane (11.410)
-1,3-Dichloropropane (11.525)
-1,2-Dibromoethane (11.696)
-2-Hexanone (11.975)
-1,1,1,2-Tetrachloroethane (12.440)
Chlorobenzene-D5 (12.333)+
m+p-Xylenes (12.583)
-o-Xylene (12.755)
-Styrene (13.234)+
-Isopropylbenzene (13.591)
-Bromofluorobenzene (13.999)
-cis-1,4-Dichloro-2-Butene (14.249)+
-1,1,2,2-Tetrachloroethane (14.292)
-Bromobenzene (14.417)
-1,3,5-Trimethylbenzene (14.478)+
-trans-1,4-Dichloro-2-Bute (14.496)
-2-Chlorotoluene (14.664)
-tert-Butylbenzene (14.957)+
-1,2,4-Trimethylbenzene (15.064)
-sec-Butylbenzene (15.229)
-P-Isopropyltoluene (15.457)
-1,3-Dichlorobenzene (15.572)
-1,4-Dichlorobenzene-D4 (15.686)+
-1,2-Dichloroethylene (tot (16.080)
-N-Butylbenzene (16.137)
-1,2-Dichlorobenzene (16.387)
-1,2-Dibromo-3-Chloropropa (17.745)
-1,3,5-Trichlorobenzene (17.803)
-Hexachlorobutadiene (18.904)+
-Naphthalene (19.533)
-1,2,3-Trichlorobenzene (19.869)
-Xylenes (total) (21.380)

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE40-1
Project : NAVSTA Newport CTO WE40-04
Instrument ID: GCMS-D
Lab File IDs : D6755.D D6754.D D6753.D D6752.D D6751.D D6750.D
Column ID:
Calibration Date(s): 19-NOV-13 10:08, 19-NOV-13 12:52

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Methyl tert-butyl ether	1.22855	1.37009	1.48041	1.62572	1.72372	1.42496	AVG		1.47557		12.07966	15.00000	O
Benzene	1.18650	1.27545	1.44810	1.50306	1.53577	1.35699	AVG		1.38431		9.84353	15.00000	O
Toluene	12955	91257	449704	1104556	2125408	3667783	LNR	-0.01139	0.90549		0.99811	0.99000	O
Ethylbenzene	0.41839	0.47004	0.57049	0.57559	0.61456	0.56564	AVG		0.53579		13.96469	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+0	15.00000	M O
m+p-Xylenes	16290	120203	609136	1492277	2897116	5226652	LNR	-0.05224	0.65140		0.99626	0.99000	O
o-Xylene	6573	46685	271534	702498	1430423	2750882	LNR	0.01537	0.68125		0.99895	0.99000	O
Dibromofluoromethane	0.54887	0.50886	0.46369	0.50529	0.53136	0.48807	AVG		0.50769		5.96438	15.00000	
1,2-Dichloroethane-D4	0.78805	0.73184	0.64162	0.68377	0.70723	0.68849	AVG		0.70683		7.02925	15.00000	
Toluene-D8	1.02404	1.16458	1.16023	1.23684	1.21778	1.09172	AVG		1.14920		6.93016	15.00000	
P-Bromofluorobenzene	0.43964	0.42232	0.43701	0.48959	0.54632	+++++	AVG		0.46698		10.94413	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Report Date: 02-Dec-2013 12:32

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG134694
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG134694-12 Client Smp ID: Independent Source
Level: LOW Operator: DJP
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-d.i\D111913.b\D826A38.m
Misc Info: WG134694,WG134694-4,SG9180-1

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1	Dichlorodifluorome	50.0	35.3	70.69*	80-120
	2	Chloromethane	50.0	38.3	76.58*	80-120
	3	Vinyl chloride	50.0	43.5	86.95	80-120
	4	Bromomethane	50.0	44.6	89.14	80-120
	5	Chloroethane	50.0	50.0	99.93	80-120
	6	Trichlorofluoromet	50.0	47.7	95.43	80-120
	7	Diethyl Ether	50.0	48.9	97.87	80-120
	8	Tertiary-butyl alc	250	57.8	23.10*	80-120
	9	1,1-Dichloroethene	50.0	56.6	113.14	80-120
	10	Carbon Disulfide	50.0	43.2	86.32	80-120
	11	Freon-113	50.0	44.5	89.05	80-120
	12	Iodomethane	50.0	46.3	92.66	80-120
	13	Acrolein	250	231	92.52	80-120
	14	Methylene Chloride	50.0	46.1	92.26	80-120
	15	Acetone	50.0	67.9	135.88*	80-120
	16	Isobutyl Alcohol	1000	242	24.22*	80-120
	17	trans-1,2-Dichloro	50.0	52.3	104.64	80-120
	18	Allyl Chloride	50.0	55.4	110.88	80-120
	19	Methyl tert-butyl	100	102	101.79	80-120
	20	Acetonitrile	500	320	63.96*	80-120
	21	Di-isopropyl ether	50.0	52.4	104.80	80-120
	22	Chloroprene	50.0	53.6	107.20	80-120
	23	Propionitrile	500	392	78.40*	80-120
	24	Methacrylonitrile	500	499	99.80	80-120
	25	1,1-Dichloroethane	50.0	54.4	108.81	80-120
	26	Acrylonitrile	250	233	93.23	80-120
	27	Ethyl tertiary-but	50.0	52.0	103.92	80-120
	28	Vinyl Acetate	50.0	59.8	119.56	80-120
	29	cis-1,2-Dichloroet	50.0	52.9	105.85	80-120
M	30	1,2-Dichloroethyle	100	105	105.24	80-120
	31	Methyl Methacrylat	50.0	54.0	108.08	80-120
	32	2,2-Dichloropropan	50.0	49.8	99.63	80-120
	33	Bromochloromethane	50.0	54.0	108.08	80-120
	34	Chloroform	50.0	53.7	107.43	80-120
	35	Carbon Tetrachlori	50.0	48.6	97.25	80-120
	36	Tetrahydrofuran	50.0	41.0	81.99	80-120
	38	1,1,1-Trichloroeth	50.0	49.1	98.25	80-120
	39	1,1-Dichloropropen	50.0	48.0	96.02	80-120
	40	2-Butanone	50.0	48.4	96.78	80-120
	41	Benzene	50.0	53.0	105.94	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Report Date: 02-Dec-2013 12:32

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	54.2	108.30	80-120
	44	Ethyl Methacrylate	50.0	54.0	107.94	80-120
	46	Tertiary-amyl meth	50.0	50.2	100.32	80-120
	47	1,2-Dichloroethane	50.0	51.7	103.32	80-120
	48	Trichloroethene	50.0	53.4	106.83	80-120
	50	Dibromomethane	50.0	51.4	102.88	80-120
	51	1,2-Dichloropropan	50.0	53.8	107.54	80-120
	52	Bromodichlorometha	50.0	51.0	101.98	80-120
	53	cis-1,3-dichloropr	50.0	47.5	95.06	80-120
	54	1,4-Dioxane	1000	20.7	2.07*	80-120
	56	2-Chloroethylvinyl	50.0	48.0	96.00	80-120
	57	Toluene	50.0	49.6	99.28	80-120
	58	4-methyl-2-pentano	50.0	42.9	85.79	80-120
	59	Tetrachloroethene	50.0	53.7	107.49	80-120
	60	trans-1,3-Dichloro	50.0	49.0	98.03	80-120
	61	1,1,2-Trichloroeth	50.0	51.7	103.41	80-120
	62	Dibromochlorometha	50.0	54.0	108.01	80-120
	63	1,3-Dichloropropan	50.0	52.0	103.91	80-120
	64	1,2-Dibromoethane	50.0	52.0	104.08	80-120
	65	2-Hexanone	50.0	45.6	91.23	80-120
	67	Chlorobenzene	50.0	56.1	112.19	80-120
	152	1-Chlorohexane	50.0	54.1	108.18	80-120
	68	Ethylbenzene	50.0	53.8	107.55	80-120
	69	1,1,1,2-Tetrachlor	50.0	54.1	108.23	80-120
M	70	Xylenes (total)	150	159	106.10	80-120
	71	m+p-Xylenes	100	108	107.68	80-120
	72	o-Xylene	50.0	51.5	102.96	80-120
	73	Styrene	50.0	49.4	98.81	80-120
	74	Bromoform	50.0	45.6	91.28	80-120
	75	Isopropylbenzene	50.0	49.4	98.76	80-120
	77	cis-1,4-Dichloro-2	50.0	52.0	103.94	80-120
	78	trans-1,4-Dichloro	50.0	49.8	99.50	80-120
	79	Bromobenzene	50.0	54.0	107.90	80-120
	80	N-Propylbenzene	50.0	51.4	102.90	80-120
	81	1,1,2,2-Tetrachlor	50.0	49.2	98.38	80-120
	82	1,3,5-Trimethylben	50.0	45.0	89.91	80-120
	83	2-Chlorotoluene	50.0	49.9	99.76	80-120
	84	1,2,3-Trichloropro	50.0	48.6	97.23	80-120
	85	4-Chlorotoluene	50.0	51.7	103.46	80-120
	86	tert-Butylbenzene	50.0	55.4	110.77	80-120
	87	Pentachloroethane	50.0	53.1	106.22	80-120
	88	1,2,4-Trimethylben	50.0	45.7	91.37	80-120
	89	P-Isopropyltoluene	50.0	49.6	99.18	80-120
	90	1,3-Dichlorobenzen	50.0	58.2	116.48	80-120
	92	1,4-Dichlorobenzen	50.0	51.2	102.43	80-120
	93	N-Butylbenzene	50.0	47.0	93.98	80-120
	94	sec-Butylbenzene	50.0	50.3	100.65	80-120
	95	1,2-Dichlorobenzen	50.0	58.5	117.09	80-120
	96	1,2-Dibromo-3-Chlo	50.0	45.6	91.18	80-120
	97	1,3,5-Trichloroben	50.0	50.6	101.13	80-120
	98	Hexachlorobutadien	50.0	49.7	99.45	80-120
	99	1,2,4-Trichloroben	50.0	55.3	110.61	80-120
	100	1,2,3-Trimethylben	50.0	51.7	103.47	80-120
	101	Naphthalene	50.0	40.3	80.54	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Report Date: 02-Dec-2013 12:32

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	53.0	106.11	80-120
103 Methyl Acetate	50.0	41.0	82.03	80-120
104 Methylcyclohexane	50.0	49.8	99.52	80-120
M 153 Total Alkylbenzene	350	344	98.39	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	48.4	96.72	68-128
$ 45 1,2-Dichloroethane	50.0	47.1	94.18	67-135
$ 55 Toluene-D8	50.0	50.7	101.36	65-128
$ 76 P-Bromofluorobenze	50.0	50.9	101.72	56-133

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Report Date: 19-Nov-2013 19:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Lab Smp Id: WG134694-6 Client Smp ID: Initial Calibration
Inj Date : 19-NOV-2013 10:08
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG134694-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D111913.b\D826A38.m
Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 10:08 Cal File: D6750.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.075	2.073	(0.258)	1764280	200.000	192	
2	Chloromethane	50	2.304	2.303	(0.286)	2007016	200.000	166	
3	Vinyl chloride	62	2.404	2.403	(0.299)	1713142	200.000	175	
4	Bromomethane	94	2.804	2.804	(0.348)	753734	200.000	166	
5	Chloroethane	64	2.962	2.961	(0.368)	1000416	200.000	186	
6	Trichlorofluoromethane	101	3.148	3.140	(0.391)	2634348	200.000	220(A)	
7	Diethyl Ether	59	3.548	3.547	(0.441)	1039309	200.000	177	
8	Tertiary-butyl alcohol	59	5.343	5.342	(0.663)	473763	1000.00	992	
9	1,1-Dichloroethene	96	3.827	3.819	(0.475)	1065754	200.000	202(A)	
10	Carbon Disulfide	76	3.863	3.862	(0.480)	4337143	200.000	198	
11	Freon-113	151	3.891	3.890	(0.483)	663795	200.000	199	
12	Iodomethane	142	4.020	4.019	(0.499)	1095261	200.000	196	
13	Acrolein	56	4.306	4.304	(0.535)	1139264	1000.00	929	
14	Methylene Chloride	84	4.699	4.691	(0.584)	1474878	200.000	199	
15	Acetone	43	4.771	4.770	(0.592)	2646883	1000.00	1020(A)	
16	Isobutyl Alcohol	43	8.238	8.238	(1.023)	1151418	4000.00	3780	
17	trans-1,2-Dichloroethene	96	4.971	4.970	(0.617)	1323178	200.000	196	
18	Allyl Chloride	41	4.528	4.527	(0.562)	1428087	200.000	153	
19	Methyl tert-butyl ether	73	5.171	5.170	(0.642)	7845134	400.000	386	
20	Acetonitrile	39	5.536	5.535	(0.687)	430896	2000.00	2220(A)	
21	Di-isopropyl ether	45	5.822	5.821	(0.723)	4436162	200.000	199	
22	Chloroprene	53	5.943	5.942	(0.738)	1938928	200.000	215(A)	
23	Propionitrile	54	7.960	7.945	(0.988)	2458960	2000.00	2130(A)	
24	Methacrylonitrile	41	7.995	7.980	(0.993)	8625582	2000.00	1670	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Report Date: 19-Nov-2013 19:52

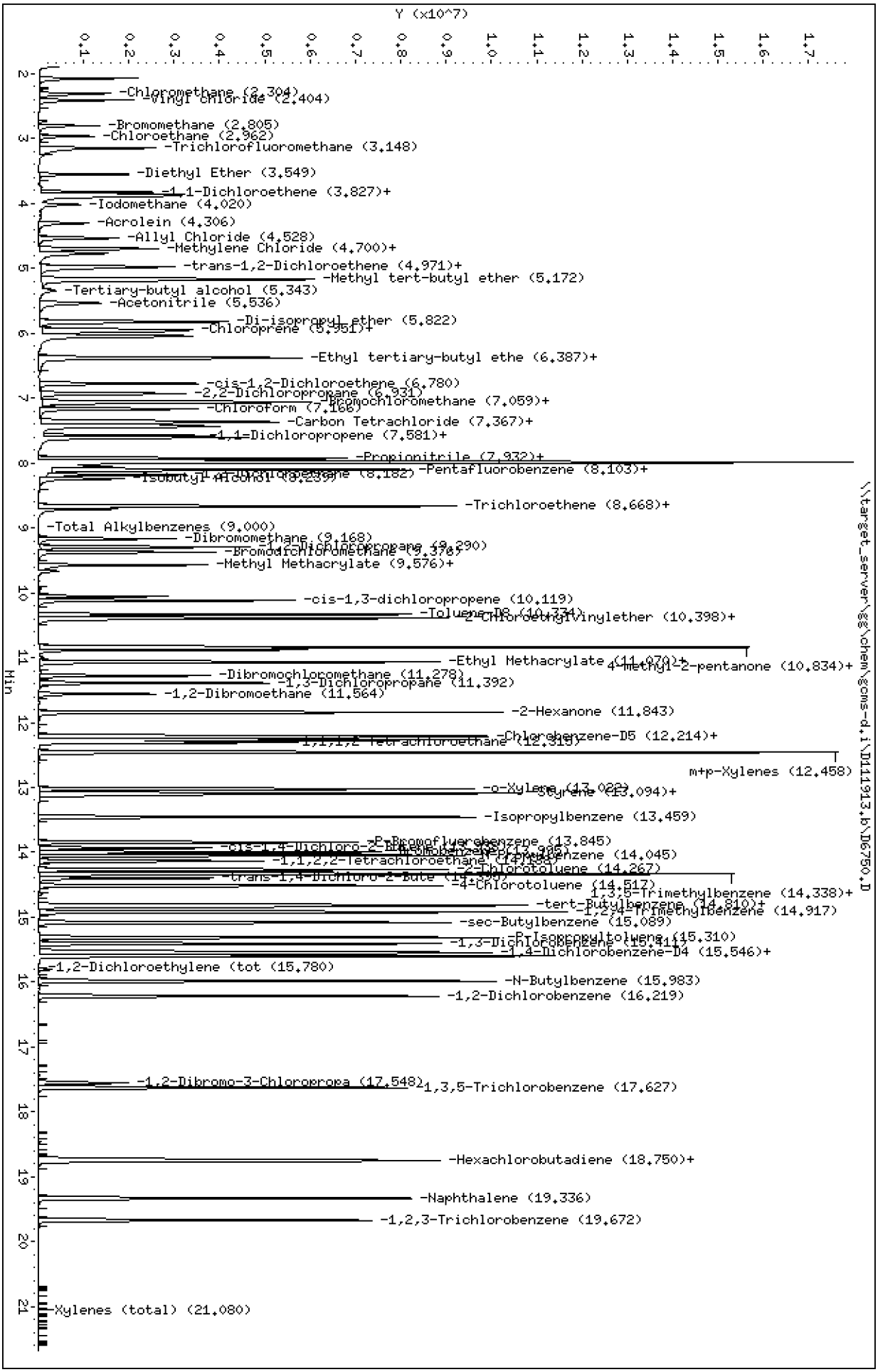
							AMOUNTS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.972	5.971	(0.742)	2615344	200.000	201(A)	
	26 Acrylonitrile	52	6.043	6.035	(0.751)	2581135	1000.00	998	
	27 Ethyl tertiary-butyl ether	59	6.379	6.379	(0.792)	4192321	200.000	205(A)	
	28 Vinyl Acetate	43	6.387	6.386	(0.733)	3323732	200.000	197	
	29 cis-1,2-Dichloroethene	96	6.780	6.772	(0.842)	1511156	200.000	204(A)	
	31 Methyl Methacrylate	41	9.576	9.575	(1.099)	1570093	200.000	247(A)	
	32 2,2-Dichloropropane	77	6.930	6.929	(0.861)	2197353	200.000	197	
	33 Bromochloromethane	128	7.052	7.051	(0.876)	617950	200.000	186	
	34 Chloroform	83	7.166	7.165	(0.890)	2657079	200.000	204(A)	
	35 Carbon Tetrachloride	117	7.352	7.351	(0.844)	1912542	200.000	198	
	36 Tetrahydrofuran	42	7.373	7.373	(0.916)	2677247	1000.00	979	
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	1343532	200.000	192	
	38 1,1,1-Trichloroethane	97	7.438	7.437	(0.924)	2378211	200.000	197	
	39 1,1-Dichloropropene	75	7.609	7.608	(0.874)	1977809	200.000	196	
	40 2-Butanone	43	7.581	7.573	(0.941)	4341528	1000.00	982	
	41 Benzene	78	7.931	7.923	(0.911)	5583526	200.000	196	
*	42 Pentafluorobenzene	168	8.053	8.052	(1.000)	688189	50.0000		
	43 Cyclohexane	56	7.066	7.065	(0.877)	2270326	200.000	196	
	44 Ethyl Methacrylate	69	11.070	11.069	(1.271)	2268710	200.000	248(A)	
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	1895247	200.000	195	
	46 Tertiary-amyl methyl ether	73	8.103	8.102	(1.006)	3974977	200.000	213(A)	
	47 1,2-Dichloroethane	62	8.181	8.180	(0.939)	2286800	200.000	211(A)	
	48 Trichloroethene	95	8.667	8.667	(0.995)	1475620	200.000	216(A)	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1028663	50.0000		
	50 Dibromomethane	93	9.168	9.167	(1.053)	1020742	200.000	210(A)	
	51 1,2-Dichloropropane	63	9.290	9.289	(1.066)	1496582	200.000	210(A)	
	52 Bromodichloromethane	83	9.375	9.375	(1.076)	2199224	200.000	199	
	53 cis-1,3-dichloropropene	75	10.119	10.118	(1.162)	2709249	200.000	198	
	54 1,4-Dioxane	88	9.611	9.618	(1.103)	143576	4000.00	775	
$	55 Toluene-D8	98	10.333	10.333	(1.186)	4492033	200.000	190	
	56 2-Chloroethylvinylether	63	10.398	10.390	(1.194)	554674	200.000	200(A)	
	57 Toluene	92	10.398	10.390	(1.194)	3667783	200.000	196	
	58 4-methyl-2-pentanone	43	10.834	10.826	(1.244)	7331612	1000.00	996	
	59 Tetrachloroethene	164	10.848	10.840	(0.889)	1147940	200.000	186	
	60 trans-1,3-Dichloropropene	75	10.877	10.876	(1.249)	2466312	200.000	199	
	61 1,1,2-Trichloroethane	83	11.063	11.062	(1.270)	1204311	200.000	204(A)	
	62 Dibromochloromethane	129	11.277	11.277	(0.924)	1742766	200.000	222(A)	
	63 1,3-Dichloropropane	76	11.392	11.384	(0.933)	2658511	200.000	194	
	64 1,2-Dibromoethane	107	11.563	11.555	(1.328)	1557882	200.000	221(A)	
	65 2-Hexanone	43	11.842	11.841	(0.970)	5973501	1000.00	994	
*	66 Chlorobenzene-D5	117	12.207	12.199	(1.000)	1024239	50.0000		
	67 Chlorobenzene	112	12.228	12.220	(1.002)	3702403	200.000	187	
	152 1-Chlorohexane	91	12.207	12.199	(1.000)	2149968	200.000	209(A)	
	68 Ethylbenzene	106	12.271	12.263	(1.005)	2317414	200.000	211(A)	
	69 1,1,1,2-Tetrachloroethane	131	12.314	12.306	(1.009)	1553036	200.000	214(A)	
	71 m+p-Xylenes	106	12.457	12.449	(1.020)	5226652	400.000	389	
	72 o-Xylene	106	13.022	13.021	(1.067)	2750882	200.000	198	
	73 Styrene	104	13.093	13.093	(1.073)	4832829	200.000	196	
	74 Bromoform	173	13.122	13.121	(1.075)	1419907	200.000	200(A)	
	75 Isopropylbenzene	105	13.458	13.450	(0.867)	6282464	200.000	199	
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	2410438	200.000	251(A)	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.936	(0.898)	824822	200.000	235(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.395	14.394	(0.927)	813408	200.000	234(A)	
	79 Bromobenzene	156	13.994	13.994	(0.901)	2046946	200.000	195	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Report Date: 19-Nov-2013 19:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.044	14.044	(0.905)	7355956	200.000	199	
81	1,1,2,2-Tetrachloroethane	83	14.137	14.129	(0.911)	2468293	200.000	180	
82	1,3,5-Trimethylbenzene	105	14.338	14.330	(0.924)	6153963	200.000	199	
83	2-Chlorotoluene	91	14.266	14.265	(0.919)	5169207	200.000	199	
84	1,2,3-Trichloropropane	75	14.330	14.330	(0.923)	2038127	200.000	182	
85	4-Chlorotoluene	91	14.516	14.508	(0.935)	5370161	200.000	199	
86	tert-Butylbenzene	119	14.809	14.809	(0.954)	5776545	200.000	194	
87	Pentachloroethane	117	14.831	14.830	(0.955)	1453777	200.000	209(A)	
88	1,2,4-Trimethylbenzene	105	14.917	14.916	(0.961)	6425113	200.000	199	
89	P-Isopropyltoluene	119	15.310	15.309	(0.986)	5961346	200.000	199	
90	1,3-Dichlorobenzene	146	15.410	15.402	(0.993)	3624585	200.000	194	
* 91	1,4-Dichlorobenzene-D4	152	15.524	15.517	(1.000)	763149	50.0000		
92	1,4-Dichlorobenzene	146	15.553	15.545	(1.002)	3937715	200.000	180	
93	N-Butylbenzene	91	15.982	15.974	(1.029)	5789173	200.000	199	
94	sec-Butylbenzene	105	15.088	15.080	(0.972)	6850032	200.000	199	
95	1,2-Dichlorobenzene	146	16.218	16.210	(1.045)	3659655	200.000	194	
96	1,2-Dibromo-3-Chloropropane	75	17.548	17.547	(1.130)	573524	200.000	195	
97	1,3,5-Trichlorobenzene	180	17.627	17.619	(1.135)	2792951	200.000	176	
98	Hexachlorobutadiene	225	18.735	18.727	(1.207)	1076717	200.000	161	
99	1,2,4-Trichlorobenzene	180	18.756	18.748	(1.208)	2722557	200.000	189	
100	1,2,3-Trimethylbenzene	105	15.596	15.588	(1.005)	6511394	200.000	178	
101	Naphthalene	128	19.335	19.328	(1.245)	7050788	200.000	198	
102	1,2,3-Trichlorobenzene	180	19.672	19.664	(1.267)	2572409	200.000	179	
103	Methyl Acetate	43	5.007	4.999	(0.622)	1370800	200.000	194	
104	Methylcyclohexane	83	8.660	8.660	(1.075)	1908136	200.000	196	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Date : 19-NOV-2013 10:08
Client ID: Initial Calibration
Sample Info: WG134694-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D111913.b\D6750.D
Y (x10^7)
Min
-Chloromethane (2.304)
-Vinyl chloride (2.404)
-Bromomethane (2.805)
-Chloroethane (2.962)
-Trichlorofluoromethane (3.148)
-Diethyl Ether (3.549)
-1,1-Dichloroethene (3.827)+
-Iodomethane (4.020)
-Acrolein (4.306)
-Allyl Chloride (4.528)
-Methylene Chloride (4.700)+
-trans-1,2-Dichloroethene (4.971)+
-Methyl tert-butyl ether (5.172)
-Tertiary-butyl alcohol (5.343)
-Acetonitrile (5.536)
-Di-isopropyl ether (5.822)
-Chloroprene (5.951)+
-Ethyl tertiary-butyl ethe (6.387)+
-cis-1,2-Dichloroethene (6.780)
-2,2-Dichloropropane (6.931)
-Bromochloromethane (7.059)+
-Chloroform (7.166)
-Carbon Tetrachloride (7.367)+
-1,1-Dichloropropene (7.581)+
-Propionitrile (7.932)+
-Pentafluorobenzene (8.103)+
-Trichloroethene (8.668)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.168)
-1,2-Dichloropropane (9.290)
-Bromodichloromethane (9.376)+
-Methyl Methacrylate (9.576)+
-cis-1,3-dichloropropene (10.119)
-Toluene-D8 (10.334)
2-Chloroethylvinylether (10.398)+
-Ethyl Methacrylate (11.070)+
4-Methyl-2-pentanone (10.834)+
-Dibromochloromethane (11.278)
-1,3-Dichloropropane (11.392)
-1,2-Dibromoethane (11.564)
-2-Hexanone (11.843)
-Chlorobenzene-D5 (12.214)+
1,1,1,2-Tetrachloroethane (12.319)
m+p-Xylenes (12.458)
-o-Xylene (13.022)
-Styrene (13.094)+
-Isopropylbenzene (13.459)
-P-Bromofluorobenzene (13.845)
-cis-1,4-Dichloro-2-Butene (13.902)
-Bromobenzene (13.982)
-1,1,2,2-Tetrachloroethane (14.045)
-n-Propylbenzene (14.188)
-2-Chlorotoluene (14.267)
-trans-1,4-Dichloro-2-Bute (14.396)
-4-Chlorotoluene (14.517)
1,3,5-Trimethylbenzene (14.338)+
-tert-Butylbenzene (14.810)+
-1,2,4-Trimethylbenzene (14.917)
-sec-Butylbenzene (15.089)
-P-Isopropyltoluene (15.310)
-1,3-Dichlorobenzene (15.411)
-1,4-Dichlorobenzene-D4 (15.546)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.983)
-1,2-Dichlorobenzene (16.219)
-1,2-Dibromo-3-Chloropropa (17.548)
1,3,5-Trichlorobenzene (17.627)
-Hexachlorobutadiene (18.750)+
-Naphthalene (19.336)
-1,2,3-Trichlorobenzene (19.672)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6751.D
Report Date: 19-Nov-2013 19:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6751.D
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Inj Date : 19-NOV-2013 10:41
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG134694-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D111913.b\D826A38.m
Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 10:41 Cal File: D6751.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

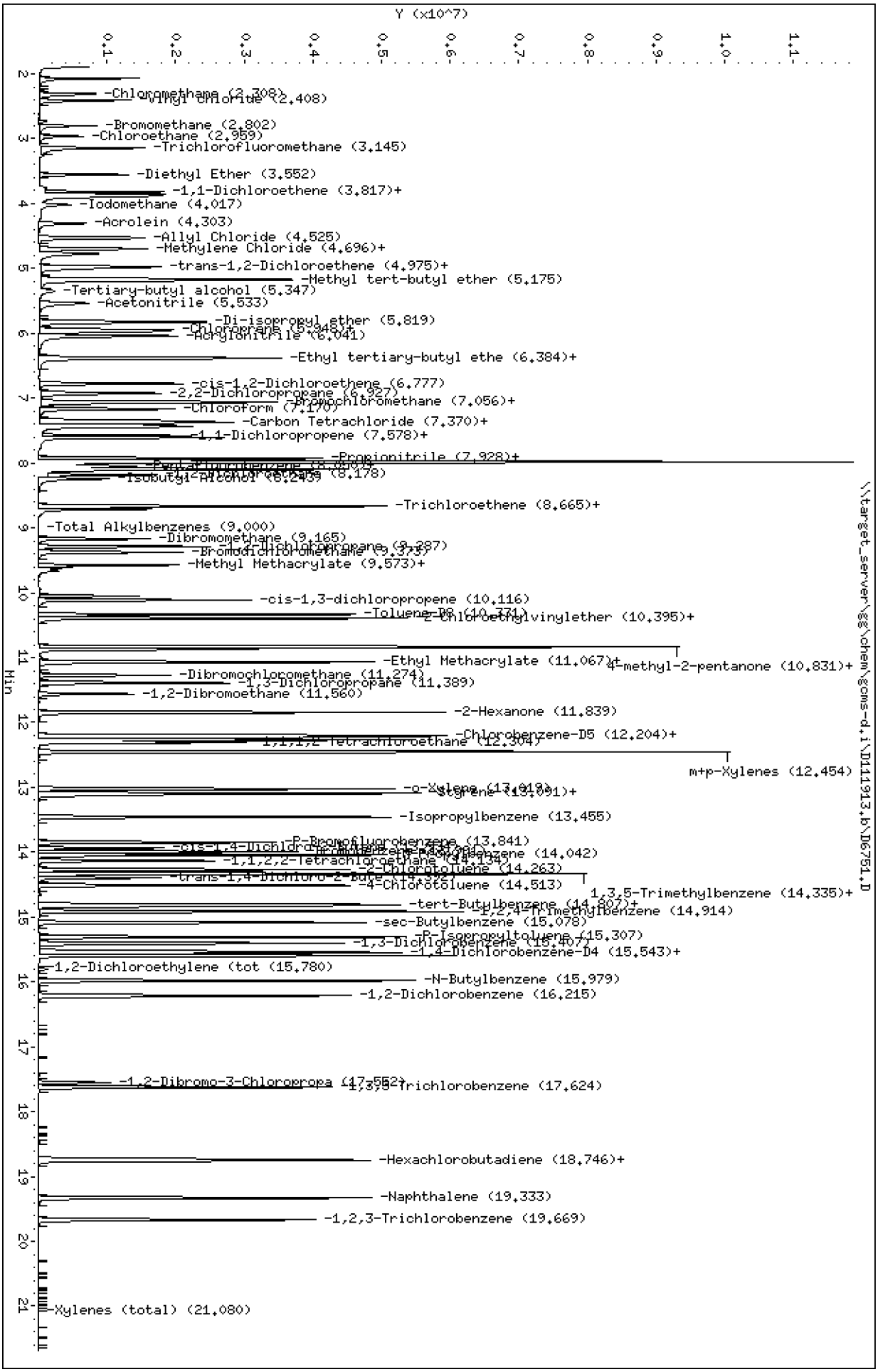
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.072	2.073	(0.257)	1083460	100.000	113	
2	Chloromethane	50	2.308	2.303	(0.287)	1258156	100.000	99.3	
3	Vinyl chloride	62	2.408	2.403	(0.299)	1121792	100.000	110	
4	Bromomethane	94	2.801	2.804	(0.348)	465254	100.000	98.0	
5	Chloroethane	64	2.958	2.961	(0.368)	526083	100.000	93.5	
6	Trichlorofluoromethane	101	3.144	3.140	(0.391)	1463746	100.000	117	
7	Diethyl Ether	59	3.552	3.547	(0.441)	662797	100.000	108	
8	Tertiary-butyl alcohol	59	5.346	5.342	(0.664)	306499	500.000	528	
9	1,1-Dichloroethene	96	3.816	3.819	(0.474)	647977	100.000	117	
10	Carbon Disulfide	76	3.859	3.862	(0.479)	2718390	100.000	105	
11	Freon-113	151	3.888	3.890	(0.483)	405061	100.000	103	
12	Iodomethane	142	4.017	4.019	(0.499)	630101	100.000	108	
13	Acrolein	56	4.303	4.304	(0.535)	735246	500.000	573	
14	Methylene Chloride	84	4.696	4.691	(0.583)	902473	100.000	104	
15	Acetone	43	4.774	4.770	(0.593)	1536077	500.000	567	
16	Isobutyl Alcohol	43	8.242	8.238	(1.024)	648929	2000.00	2040	
17	trans-1,2-Dichloroethene	96	4.975	4.970	(0.618)	797163	100.000	113	
18	Allyl Chloride	41	4.531	4.527	(0.563)	1176196	100.000	120	
19	Methyl tert-butyl ether	73	5.175	5.170	(0.643)	4964738	200.000	234	
20	Acetonitrile	39	5.540	5.535	(0.688)	237849	1000.00	1170	
21	Di-isopropyl ether	45	5.818	5.821	(0.723)	2697487	100.000	116	
22	Chloroprene	53	5.947	5.942	(0.739)	1126849	100.000	119	
23	Propionitrile	54	7.949	7.945	(0.988)	1363054	1000.00	1130	
24	Methacrylonitrile	41	7.985	7.980	(0.992)	5534008	1000.00	1020	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6751.D
Report Date: 19-Nov-2013 19:53

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.976	5.971	(0.742)	1514567	100.000	111	
	26 Acrylonitrile	52	6.040	6.035	(0.750)	1535245	500.000	567	
	27 Ethyl tertiary-butyl ether	59	6.383	6.379	(0.793)	2486764	100.000	116	
	28 Vinyl Acetate	43	6.383	6.386	(0.733)	1909935	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.777	6.772	(0.842)	894346	100.000	115	
	31 Methyl Methacrylate	41	9.572	9.575	(1.099)	872771	100.000	129	
	32 2,2-Dichloropropane	77	6.927	6.929	(0.861)	1247164	100.000	107	
	33 Bromochloromethane	128	7.048	7.051	(0.876)	362100	100.000	104	
	34 Chloroform	83	7.170	7.165	(0.891)	1522947	100.000	112	
	35 Carbon Tetrachloride	117	7.349	7.351	(0.844)	1066540	100.000	104	
	36 Tetrahydrofuran	42	7.370	7.373	(0.916)	1542746	500.000	540	
$	37 Dibromofluoromethane	113	7.413	7.408	(0.921)	765224	100.000	105	
	38 1,1,1-Trichloroethane	97	7.434	7.437	(0.924)	1336755	100.000	106	
	39 1,1-Dichloropropene	75	7.606	7.608	(0.874)	1153741	100.000	107	
	40 2-Butanone	43	7.577	7.573	(0.941)	2471227	500.000	534	
	41 Benzene	78	7.928	7.923	(0.910)	3362522	100.000	111	
*	42 Pentafluorobenzene	168	8.049	8.052	(1.000)	720061	50.0000		
	43 Cyclohexane	56	7.063	7.065	(0.877)	1304051	100.000	108	
	44 Ethyl Methacrylate	69	11.067	11.069	(1.271)	1241996	100.000	128	
$	45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.005)	1018501	100.000	100	
	46 Tertiary-amyl methyl ether	73	8.099	8.102	(1.006)	2283189	100.000	117	
	47 1,2-Dichloroethane	62	8.178	8.180	(0.939)	1247456	100.000	108	
	48 Trichloroethene	95	8.671	8.667	(0.996)	846739	100.000	116	
*	49 1,4-Difluorobenzene	114	8.707	8.710	(1.000)	1094733	50.0000		
	50 Dibromomethane	93	9.165	9.167	(1.053)	567765	100.000	110	
	51 1,2-Dichloropropane	63	9.286	9.289	(1.067)	840716	100.000	111	
	52 Bromodichloromethane	83	9.372	9.375	(1.076)	1202468	100.000	103	
	53 cis-1,3-dichloropropene	75	10.116	10.118	(1.162)	1532537	100.000	105	
	54 1,4-Dioxane	88	9.615	9.618	(1.104)	328680	2000.00	2010	
$	55 Toluene-D8	98	10.330	10.333	(1.186)	2666295	100.000	106	
	56 2-Chloroethylvinylether	63	10.394	10.390	(1.194)	293033	100.000	100	
	57 Toluene	92	10.394	10.390	(1.194)	2125408	100.000	107	
	58 4-methyl-2-pentanone	43	10.831	10.826	(1.244)	4640737	500.000	516	
	59 Tetrachloroethene	164	10.845	10.840	(0.889)	660072	100.000	109	
	60 trans-1,3-Dichloropropene	75	10.874	10.876	(1.249)	1346048	100.000	103	
	61 1,1,2-Trichloroethane	83	11.059	11.062	(1.270)	669583	100.000	106	
	62 Dibromochloromethane	129	11.274	11.277	(0.924)	905960	100.000	117	
	63 1,3-Dichloropropane	76	11.388	11.384	(0.933)	1476548	100.000	109	
	64 1,2-Dibromoethane	107	11.560	11.555	(1.328)	850223	100.000	113	
	65 2-Hexanone	43	11.839	11.841	(0.970)	3521992	500.000	522	
*	66 Chlorobenzene-D5	117	12.203	12.199	(1.000)	1008011	50.0000		
	67 Chlorobenzene	112	12.225	12.220	(1.002)	2054429	100.000	106	
	152 1-Chlorohexane	91	12.203	12.199	(1.000)	1153296	100.000	114	
	68 Ethylbenzene	106	12.261	12.263	(1.005)	1238971	100.000	115	
	69 1,1,1,2-Tetrachloroethane	131	12.304	12.306	(1.008)	814545	100.000	114	
	71 m+p-Xylenes	106	12.454	12.449	(1.021)	2897116	200.000	218	
	72 o-Xylene	106	13.019	13.021	(1.067)	1430423	100.000	105	
	73 Styrene	104	13.090	13.093	(1.073)	2586349	100.000	107	
	74 Bromoform	173	13.119	13.121	(1.075)	699600	100.000	101	
	75 Isopropylbenzene	105	13.455	13.450	(0.867)	3447148	100.000	104	
$	76 P-Bromofluorobenzene	95	13.841	13.843	(1.590)	1196160	100.000	117	
	77 cis-1,4-Dichloro-2-Butene	53	13.934	13.936	(0.898)	391299	100.000	123	
	78 trans-1,4-Dichloro-2-Butene	53	14.391	14.394	(0.927)	380158	100.000	121	
	79 Bromobenzene	156	13.991	13.994	(0.901)	1045414	100.000	110	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6751.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.041	14.044	(0.905)	4115076	100.000	104	
81	1,1,2,2-Tetrachloroethane	83	14.134	14.129	(0.911)	1290614	100.000	104	
82	1,3,5-Trimethylbenzene	105	14.334	14.330	(0.924)	3327624	100.000	104	
83	2-Chlorotoluene	91	14.263	14.265	(0.919)	2688380	100.000	102	
84	1,2,3-Trichloropropane	75	14.327	14.330	(0.923)	1039459	100.000	102	
85	4-Chlorotoluene	91	14.513	14.508	(0.935)	2823247	100.000	103	
86	tert-Butylbenzene	119	14.806	14.809	(0.954)	2987247	100.000	110	
87	Pentachloroethane	117	14.828	14.830	(0.955)	709429	100.000	113	
88	1,2,4-Trimethylbenzene	105	14.913	14.916	(0.961)	3515295	100.000	104	
89	P-Isopropyltoluene	119	15.307	15.309	(0.986)	3214180	100.000	104	
90	1,3-Dichlorobenzene	146	15.407	15.402	(0.993)	1884304	100.000	111	
* 91	1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	691537	50.0000		
92	1,4-Dichlorobenzene	146	15.543	15.545	(1.001)	2076987	100.000	105	
93	N-Butylbenzene	91	15.979	15.974	(1.029)	3164681	100.000	105	
94	sec-Butylbenzene	105	15.085	15.080	(0.972)	3698743	100.000	104	
95	1,2-Dichlorobenzene	146	16.215	16.210	(1.045)	1928280	100.000	113	
96	1,2-Dibromo-3-Chloropropane	75	17.552	17.547	(1.131)	292867	100.000	110	
97	1,3,5-Trichlorobenzene	180	17.623	17.619	(1.135)	1511158	100.000	105	
98	Hexachlorobutadiene	225	18.732	18.727	(1.207)	592857	100.000	97.8	
99	1,2,4-Trichlorobenzene	180	18.753	18.748	(1.208)	1493432	100.000	114	
100	1,2,3-Trimethylbenzene	105	15.593	15.588	(1.005)	3587561	100.000	108	
101	Naphthalene	128	19.332	19.328	(1.246)	4174302	100.000	107	
102	1,2,3-Trichlorobenzene	180	19.668	19.664	(1.267)	1434447	100.000	110	
103	Methyl Acetate	43	5.003	4.999	(0.622)	871126	100.000	118	
104	Methylcyclohexane	83	8.657	8.660	(1.076)	1076182	100.000	106	



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Client ID: Initial Calibration
Sample Info: WG134694-5
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18

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Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6752.D
Report Date: 19-Nov-2013 19:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6752.D
Lab Smp Id: WG134694-4 Client Smp ID: Initial Calibration
Inj Date : 19-NOV-2013 11:13
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG134694-4
Misc Info :
Comment : SW846 5030
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Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 11:13 Cal File: D6752.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

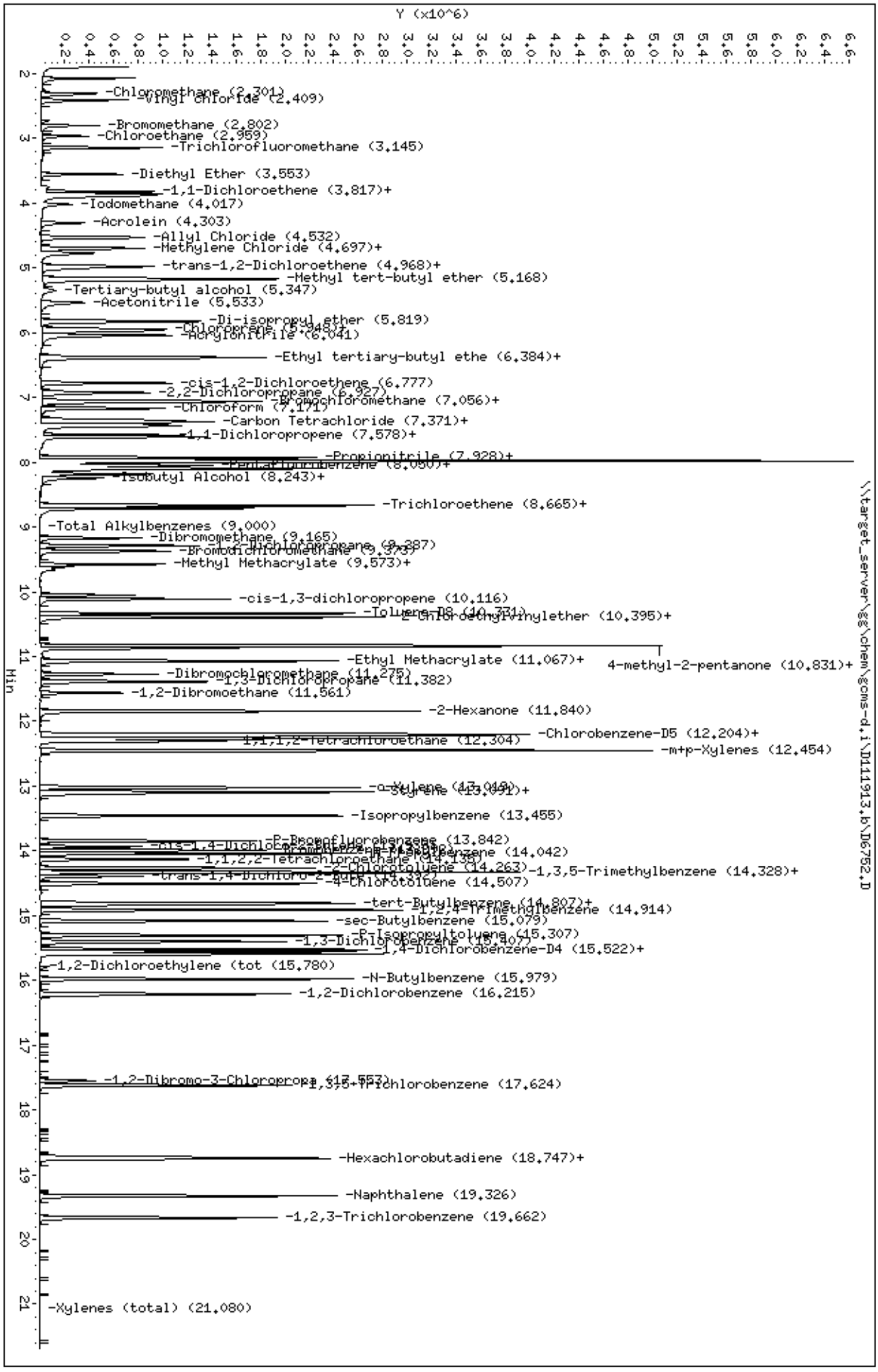
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.072	2.073	(0.257)	584603	50.0000	55.6	
2	Chloromethane	50	2.301	2.303	(0.286)	680748	50.0000	49.0	
3	Vinyl chloride	62	2.408	2.403	(0.299)	613470	50.0000	54.8	
4	Bromomethane	94	2.801	2.804	(0.348)	256454	50.0000	49.3	
5	Chloroethane	64	2.959	2.961	(0.368)	311266	50.0000	50.5	
6	Trichlorofluoromethane	101	3.144	3.140	(0.391)	715927	50.0000	52.3	
7	Diethyl Ether	59	3.552	3.547	(0.441)	346785	50.0000	51.4	
8	Tertiary-butyl alcohol	59	5.347	5.342	(0.664)	162531	250.000	222	
9	1,1-Dichloroethene	96	3.817	3.819	(0.474)	327368	50.0000	54.0	
10	Carbon Disulfide	76	3.860	3.862	(0.480)	1379424	50.0000	44.6	
11	Freon-113	151	3.888	3.890	(0.483)	218160	50.0000	46.9	
12	Iodomethane	142	4.017	4.019	(0.499)	332465	50.0000	51.9	
13	Acrolein	56	4.303	4.304	(0.535)	380050	250.000	270	
14	Methylene Chloride	84	4.696	4.691	(0.583)	476029	50.0000	45.9	
15	Acetone	43	4.768	4.770	(0.592)	748040	250.000	252	
16	Isobutyl Alcohol	43	8.243	8.238	(1.024)	333928	1000.00	956	
17	trans-1,2-Dichloroethene	96	4.968	4.970	(0.617)	415645	50.0000	53.8	
18	Allyl Chloride	41	4.532	4.527	(0.563)	638759	50.0000	59.7	
19	Methyl tert-butyl ether	73	5.168	5.170	(0.642)	2565774	100.000	110	
20	Acetonitrile	39	5.540	5.535	(0.688)	115737	500.000	521	
21	Di-isopropyl ether	45	5.819	5.821	(0.723)	1437603	50.0000	56.3	
22	Chloroprene	53	5.947	5.942	(0.739)	595310	50.0000	57.5	
23	Propionitrile	54	7.949	7.945	(0.988)	703054	500.000	531	
24	Methacrylonitrile	41	7.978	7.980	(0.991)	3209138	500.000	541	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6752.D
Report Date: 19-Nov-2013 19:53

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.969	5.971	(0.742)	796292	50.0000	53.4	
	26 Acrylonitrile	52	6.040	6.035	(0.750)	797316	250.000	269	
	27 Ethyl tertiary-butyl ether	59	6.383	6.379	(0.793)	1294501	50.0000	55.3	
	28 Vinyl Acetate	43	6.383	6.386	(0.733)	980036	50.0000	50.4	
	29 cis-1,2-Dichloroethene	96	6.777	6.772	(0.842)	460824	50.0000	54.2	
	31 Methyl Methacrylate	41	9.572	9.575	(1.099)	451246	50.0000	61.5	
	32 2,2-Dichloropropane	77	6.927	6.929	(0.861)	605911	50.0000	47.9	
	33 Bromochloromethane	128	7.048	7.051	(0.876)	199842	50.0000	52.4	
	34 Chloroform	83	7.163	7.165	(0.890)	792647	50.0000	53.0	
	35 Carbon Tetrachloride	117	7.349	7.351	(0.844)	527391	50.0000	48.0	
	36 Tetrahydrofuran	42	7.370	7.373	(0.916)	779360	250.000	250	
$	37 Dibromofluoromethane	113	7.406	7.408	(0.920)	398735	50.0000	49.8	
	38 1,1,1-Trichloroethane	97	7.435	7.437	(0.924)	677203	50.0000	49.1	
	39 1,1-Dichloropropene	75	7.606	7.608	(0.874)	593280	50.0000	50.4	
	40 2-Butanone	43	7.578	7.573	(0.941)	1290578	250.000	255	
	41 Benzene	78	7.928	7.923	(0.910)	1786847	50.0000	54.3	
*	42 Pentafluorobenzene	168	8.049	8.052	(1.000)	789118	50.0000		
	43 Cyclohexane	56	7.063	7.065	(0.877)	667115	50.0000	50.2	
	44 Ethyl Methacrylate	69	11.067	11.069	(1.271)	641498	50.0000	60.7	
$	45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.005)	539579	50.0000	48.4	
	46 Tertiary-amyl methyl ether	73	8.100	8.102	(1.006)	1167559	50.0000	54.7	
	47 1,2-Dichloroethane	62	8.178	8.180	(0.939)	651330	50.0000	51.9	
	48 Trichloroethene	95	8.664	8.667	(0.995)	415394	50.0000	52.7	
*	49 1,4-Difluorobenzene	114	8.707	8.710	(1.000)	1188806	50.0000		
	50 Dibromomethane	93	9.165	9.167	(1.053)	284335	50.0000	50.6	
	51 1,2-Dichloropropane	63	9.294	9.289	(1.067)	438179	50.0000	53.2	
	52 Bromodichloromethane	83	9.372	9.375	(1.076)	610947	50.0000	48.5	
	53 cis-1,3-dichloropropene	75	10.116	10.118	(1.162)	778549	50.0000	49.5	
	54 1,4-Dioxane	88	9.615	9.618	(1.104)	198592	1000.00	964	
$	55 Toluene-D8	98	10.330	10.333	(1.186)	1470366	50.0000	53.8	
	56 2-Chloroethylvinylether	63	10.395	10.390	(1.194)	150893	50.0000	48.1	
	57 Toluene	92	10.395	10.390	(1.194)	1104556	50.0000	50.7	
	58 4-methyl-2-pentanone	43	10.831	10.826	(1.244)	2578756	250.000	239	
	59 Tetrachloroethene	164	10.845	10.840	(0.889)	349595	50.0000	53.8	
	60 trans-1,3-Dichloropropene	75	10.874	10.876	(1.249)	686487	50.0000	48.8	
	61 1,1,2-Trichloroethane	83	11.060	11.062	(1.270)	350670	50.0000	51.4	
	62 Dibromochloromethane	129	11.274	11.277	(0.924)	448160	50.0000	54.3	
	63 1,3-Dichloropropane	76	11.389	11.384	(0.933)	759118	50.0000	52.5	
	64 1,2-Dibromoethane	107	11.560	11.555	(1.328)	427257	50.0000	52.4	
	65 2-Hexanone	43	11.839	11.841	(0.970)	1849098	250.000	232	
*	66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1078530	50.0000		
	67 Chlorobenzene	112	12.225	12.220	(1.002)	1072219	50.0000	51.5	
	152 1-Chlorohexane	91	12.197	12.199	(0.999)	572530	50.0000	52.8	
	68 Ethylbenzene	106	12.261	12.263	(1.005)	620795	50.0000	53.7	
	69 1,1,1,2-Tetrachloroethane	131	12.304	12.306	(1.008)	405323	50.0000	52.9	
	71 m+p-Xylenes	106	12.454	12.449	(1.021)	1492277	100.000	104	
	72 o-Xylene	106	13.019	13.021	(1.067)	702498	50.0000	48.6	
	73 Styrene	104	13.090	13.093	(1.073)	1273751	50.0000	49.4	
	74 Bromoform	173	13.119	13.121	(1.075)	330178	50.0000	46.1	
	75 Isopropylbenzene	105	13.455	13.450	(0.867)	1715772	50.0000	47.0	
$	76 P-Bromofluorobenzene	95	13.841	13.843	(1.590)	582026	50.0000	52.4	
	77 cis-1,4-Dichloro-2-Butene	53	13.934	13.936	(0.898)	177896	50.0000	57.3	
	78 trans-1,4-Dichloro-2-Butene	53	14.392	14.394	(0.927)	174406	50.0000	56.7	
	79 Bromobenzene	156	13.991	13.994	(0.901)	509674	50.0000	54.9	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6752.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.041	14.044	(0.905)	2060849	50.0000	46.5	
81	1,1,2,2-Tetrachloroethane	83	14.127	14.129	(0.910)	633420	50.0000	52.1	
82	1,3,5-Trimethylbenzene	105	14.327	14.330	(0.923)	1614470	50.0000	46.6	
83	2-Chlorotoluene	91	14.263	14.265	(0.919)	1315117	50.0000	47.8	
84	1,2,3-Trichloropropane	75	14.327	14.330	(0.923)	519206	50.0000	52.2	
85	4-Chlorotoluene	91	14.506	14.508	(0.935)	1366290	50.0000	47.2	
86	tert-Butylbenzene	119	14.806	14.809	(0.954)	1408523	50.0000	52.4	
87	Pentachloroethane	117	14.828	14.830	(0.955)	341913	50.0000	55.5	
88	1,2,4-Trimethylbenzene	105	14.914	14.916	(0.961)	1697321	50.0000	46.2	
89	P-Isopropyltoluene	119	15.307	15.309	(0.986)	1503033	50.0000	45.8	
90	1,3-Dichlorobenzene	146	15.407	15.402	(0.993)	905028	50.0000	54.7	
* 91	1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	676282	50.0000		
92	1,4-Dichlorobenzene	146	15.543	15.545	(1.001)	973956	50.0000	50.2	
93	N-Butylbenzene	91	15.979	15.974	(1.029)	1497254	50.0000	45.7	
94	sec-Butylbenzene	105	15.078	15.080	(0.971)	1761318	50.0000	46.1	
95	1,2-Dichlorobenzene	146	16.215	16.210	(1.045)	903699	50.0000	54.2	
96	1,2-Dibromo-3-Chloropropane	75	17.545	17.547	(1.130)	128098	50.0000	49.4	
97	1,3,5-Trichlorobenzene	180	17.624	17.619	(1.135)	766248	50.0000	54.6	
98	Hexachlorobutadiene	225	18.725	18.727	(1.206)	294102	50.0000	49.6	
99	1,2,4-Trichlorobenzene	180	18.753	18.748	(1.208)	728791	50.0000	57.0	
100	1,2,3-Trimethylbenzene	105	15.593	15.588	(1.005)	1772899	50.0000	54.6	
101	Naphthalene	128	19.325	19.328	(1.245)	2091559	50.0000	45.2	
102	1,2,3-Trichlorobenzene	180	19.668	19.664	(1.267)	711019	50.0000	55.8	
103	Methyl Acetate	43	5.004	4.999	(0.622)	431468	50.0000	53.2	
104	Methylcyclohexane	83	8.664	8.660	(1.076)	589599	50.0000	52.7	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Client ID: Initial Calibration
Sample Info: WG134694-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D111913.b\D6752.D
Y (x10^6)
Min
-Chloromethane (2.301)
-Vinyl Chloride (2.409)
-Bromomethane (2.802)
-Chloroethane (2.959)
-Trichlorofluoromethane (3.145)
-Diethyl Ether (3.553)
-1,1-Dichloroethene (3.817)+
-Iodomethane (4.017)
-Acrolein (4.303)
-Allyl Chloride (4.532)
-Methylene Chloride (4.697)+
-trans-1,2-Dichloroethene (4.968)+
-Methyl tert-butyl ether (5.168)
-Tertiary-butyl alcohol (5.347)
-Acetonitrile (5.533)
-Di-isopropyl ether (5.819)
-Chloroprene (5.948)+
-Acrylonitrile (6.041)
-Ethyl tertiary-butyl ethe (6.384)+
-cis-1,2-Dichloroethene (6.777)
-2,2-Dichloropropane (6.927)
-Bromochloromethane (7.056)+
-Chloroform (7.171)
-Carbon Tetrachloride (7.371)+
-1,1-Dichloropropene (7.578)+
-Propionitrile (7.928)+
-Pentafluorobenzene (8.060)+
-Isobutyl Alcohol (8.243)+
-Trichloroethene (8.665)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.165)
-1,2-Dichloropropane (9.287)
-Bromodichloromethane (9.373)
-Methyl Methacrylate (9.573)+
-cis-1,3-dichloropropene (10.116)
-Toluene-D8 (10.231)
-2-Chloroethylvinylether (10.395)+
4-methyl-2-pentanone (10.831)+
-Ethyl Methacrylate (11.067)+
-Dibromochloromethane (11.275)
-1,3-Dichloropropane (11.382)
-1,2-Dibromoethane (11.561)
-2-Hexanone (11.840)
-Chlorobenzene-D5 (12.204)+
-1,1,1,2-Tetrachloroethane (12.304)
-m+p-Xylenes (12.454)
-o-Xylene (12.949)
-Styrene (13.091)+
-Isopropylbenzene (13.455)
-P-Bromofluorobenzene (13.842)
-cis-1,4-Dichloro-2-butene (13.936)
-Bromobenzene (14.042)
-1,1,2,2-Tetrachloroethane (14.130)
-n-Propylbenzene (14.136)
-2-Chlorotoluene (14.263)
-1,3,5-Trimethylbenzene (14.328)+
-trans-1,4-Dichloro-2-butene (14.414)
-4-Chlorotoluene (14.507)
-tert-Butylbenzene (14.807)+
-1,2,4-Trimethylbenzene (14.914)
-sec-Butylbenzene (15.079)
-P-Isopropyltoluene (15.307)
-1,3-Dichlorobenzene (15.407)
-1,4-Dichlorobenzene-D4 (15.522)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.979)
-1,2-Dichlorobenzene (16.215)
-1,2-Dibromo-3-Chloropropa (17.557)
-1,3,5-Trichlorobenzene (17.624)
-Hexachlorobutadiene (18.747)+
-Naphthalene (19.326)
-1,2,3-Trichlorobenzene (19.662)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6753.D
Report Date: 19-Nov-2013 19:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6753.D
Lab Smp Id: WG134694-3 Client Smp ID: Initial Calibration
Inj Date : 19-NOV-2013 11:46
Operator : DJP Inst ID: gcms-d.i
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Misc Info :
Comment : SW846 5030
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Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 11:46 Cal File: D6753.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.073	2.073	(0.257)	225714	20.0000	19.9	
2	Chloromethane	50	2.301	2.303	(0.286)	278124	20.0000	18.6	
3	Vinyl chloride	62	2.409	2.403	(0.299)	244089	20.0000	20.2	
4	Bromomethane	94	2.802	2.804	(0.348)	103583	20.0000	18.4	
5	Chloroethane	64	2.959	2.961	(0.368)	129560	20.0000	19.5	
6	Trichlorofluoromethane	101	3.145	3.140	(0.391)	282919	20.0000	19.2	
7	Diethyl Ether	59	3.553	3.547	(0.441)	134915	20.0000	18.5	
8	Tertiary-butyl alcohol	59	5.340	5.342	(0.663)	73300	100.000	87.1	
9	1,1-Dichloroethene	96	3.817	3.819	(0.474)	136932	20.0000	21.0	
10	Carbon Disulfide	76	3.860	3.862	(0.480)	577581	20.0000	17.6	
11	Freon-113	151	3.889	3.890	(0.483)	90354	20.0000	17.9	
12	Iodomethane	142	4.017	4.019	(0.499)	111179	20.0000	16.2	
13	Acrolein	56	4.303	4.304	(0.535)	139525	100.000	92.0	
14	Methylene Chloride	84	4.697	4.691	(0.583)	207315	20.0000	17.7	
15	Acetone	43	4.768	4.770	(0.592)	290454	100.000	90.8	
16	Isobutyl Alcohol	43	8.243	8.238	(1.024)	124208	400.000	330	
17	trans-1,2-Dichloroethene	96	4.968	4.970	(0.617)	171626	20.0000	20.6	
18	Allyl Chloride	41	4.532	4.527	(0.563)	242877	20.0000	21.1	
19	Methyl tert-butyl ether	73	5.176	5.170	(0.643)	1007738	40.0000	40.1	
20	Acetonitrile	39	5.540	5.535	(0.688)	40141	200.000	168	
21	Di-isopropyl ether	45	5.819	5.821	(0.723)	537631	20.0000	19.5	
22	Chloroprene	53	5.948	5.942	(0.739)	226575	20.0000	20.3	
23	Propionitrile	54	7.950	7.945	(0.988)	256596	200.000	180	
24	Methacrylonitrile	41	7.979	7.980	(0.991)	1313719	200.000	205	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6753.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.969	5.971	(0.742)	323419	20.0000	20.1	
	26 Acrylonitrile	52	6.041	6.035	(0.750)	302800	100.000	94.7	
	27 Ethyl tertiary-butyl ether	59	6.384	6.379	(0.793)	486150	20.0000	19.3	
	28 Vinyl Acetate	43	6.384	6.386	(0.733)	356372	20.0000	17.5	
	29 cis-1,2-Dichloroethene	96	6.777	6.772	(0.842)	184474	20.0000	20.1	
	31 Methyl Methacrylate	41	9.573	9.575	(1.099)	151970	20.0000	19.5	
	32 2,2-Dichloropropane	77	6.927	6.929	(0.861)	236461	20.0000	17.8	
	33 Bromochloromethane	128	7.049	7.051	(0.876)	85056	20.0000	20.7	
	34 Chloroform	83	7.171	7.165	(0.891)	321838	20.0000	20.0	
	35 Carbon Tetrachloride	117	7.349	7.351	(0.844)	213222	20.0000	18.8	
	36 Tetrahydrofuran	42	7.378	7.373	(0.917)	280829	100.000	84.2	
$	37 Dibromofluoromethane	113	7.407	7.408	(0.920)	157820	20.0000	18.3	
	38 1,1,1-Trichloroethane	97	7.435	7.437	(0.924)	280622	20.0000	18.9	
	39 1,1-Dichloropropene	75	7.607	7.608	(0.874)	247657	20.0000	19.4	
	40 2-Butanone	43	7.578	7.573	(0.941)	466834	100.000	85.8	
	41 Benzene	78	7.928	7.923	(0.911)	731639	20.0000	20.9	
*	42 Pentafluorobenzene	168	8.050	8.052	(1.000)	850897	50.0000		
	43 Cyclohexane	56	7.063	7.065	(0.877)	272158	20.0000	18.9	
	44 Ethyl Methacrylate	69	11.075	11.069	(1.272)	222565	20.0000	19.8	
$	45 1,2-Dichloroethane-D4	65	8.093	8.095	(1.005)	218381	20.0000	18.2	
	46 Tertiary-amyl methyl ether	73	8.100	8.102	(1.006)	437498	20.0000	19.0	
	47 1,2-Dichloroethane	62	8.179	8.180	(0.939)	256890	20.0000	19.3	
	48 Trichloroethene	95	8.665	8.667	(0.995)	174187	20.0000	20.8	
*	49 1,4-Difluorobenzene	114	8.708	8.710	(1.000)	1263101	50.0000		
	50 Dibromomethane	93	9.165	9.167	(1.053)	113920	20.0000	19.1	
	51 1,2-Dichloropropane	63	9.287	9.289	(1.067)	172570	20.0000	19.7	
	52 Bromodichloromethane	83	9.373	9.375	(1.076)	239534	20.0000	18.5	
	53 cis-1,3-dichloropropene	75	10.116	10.118	(1.162)	295353	20.0000	18.0	
	54 1,4-Dioxane	88	9.616	9.618	(1.104)	105240	400.000	418	
$	55 Toluene-D8	98	10.331	10.333	(1.186)	586194	20.0000	20.2	
	56 2-Chloroethylvinylether	63	10.388	10.390	(1.193)	62206	20.0000	19.4	
	57 Toluene	92	10.395	10.390	(1.194)	449704	20.0000	19.1	
	58 4-methyl-2-pentanone	43	10.831	10.826	(1.244)	1008542	100.000	86.0	
	59 Tetrachloroethene	164	10.846	10.840	(0.889)	147273	20.0000	21.8	
	60 trans-1,3-Dichloropropene	75	10.874	10.876	(1.249)	260351	20.0000	18.1	
	61 1,1,2-Trichloroethane	83	11.060	11.062	(1.270)	137746	20.0000	19.0	
	62 Dibromochloromethane	129	11.275	11.277	(0.924)	168354	20.0000	19.6	
	63 1,3-Dichloropropane	76	11.389	11.384	(0.933)	301063	20.0000	20.1	
	64 1,2-Dibromoethane	107	11.561	11.555	(1.328)	165796	20.0000	19.1	
	65 2-Hexanone	43	11.840	11.841	(0.970)	684840	100.000	83.5	
*	66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1119831	50.0000		
	67 Chlorobenzene	112	12.226	12.220	(1.002)	438297	20.0000	20.3	
	152 1-Chlorohexane	91	12.204	12.199	(1.000)	233511	20.0000	20.8	
	68 Ethylbenzene	106	12.261	12.263	(1.005)	255542	20.0000	21.3	
	69 1,1,1,2-Tetrachloroethane	131	12.304	12.306	(1.008)	157696	20.0000	19.8	
	71 m+p-Xylenes	106	12.455	12.449	(1.021)	609136	40.0000	39.1	
	72 o-Xylene	106	13.019	13.021	(1.067)	271534	20.0000	18.6	
	73 Styrene	104	13.091	13.093	(1.073)	487530	20.0000	18.4	
	74 Bromoform	173	13.119	13.121	(1.075)	118518	20.0000	17.5	
	75 Isopropylbenzene	105	13.456	13.450	(0.867)	680581	20.0000	17.8	
$	76 P-Bromofluorobenzene	95	13.842	13.843	(1.590)	220794	20.0000	18.7	
	77 cis-1,4-Dichloro-2-Butene	53	13.935	13.936	(0.898)	59081	20.0000	18.8	
	78 trans-1,4-Dichloro-2-Butene	53	14.392	14.394	(0.927)	56942	20.0000	18.3	
	79 Bromobenzene	156	13.992	13.994	(0.901)	201411	20.0000	21.4	

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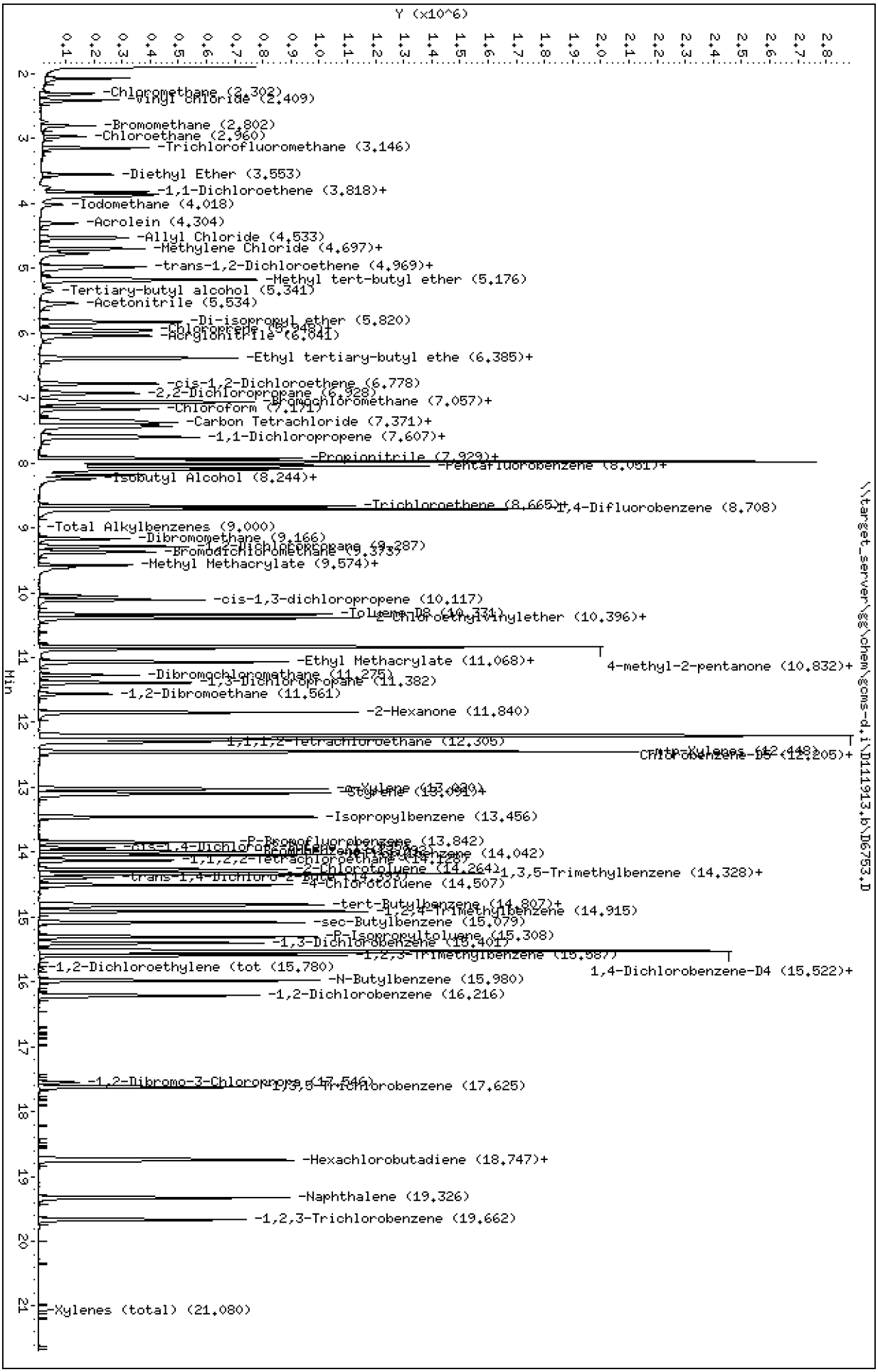
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.042	14.044	(0.905)	841692	20.0000	17.9	
81	1,1,2,2-Tetrachloroethane	83	14.128	14.129	(0.910)	245540	20.0000	20.0	
82	1,3,5-Trimethylbenzene	105	14.328	14.330	(0.923)	646439	20.0000	18.1	
83	2-Chlorotoluene	91	14.263	14.265	(0.919)	511205	20.0000	18.2	
84	1,2,3-Trichloropropane	75	14.328	14.330	(0.923)	205660	20.0000	20.4	
85	4-Chlorotoluene	91	14.507	14.508	(0.935)	540380	20.0000	18.3	
86	tert-Butylbenzene	119	14.807	14.809	(0.954)	548002	20.0000	19.3	
87	Pentachloroethane	117	14.828	14.830	(0.955)	124933	20.0000	20.0	
88	1,2,4-Trimethylbenzene	105	14.914	14.916	(0.961)	673928	20.0000	17.8	
89	P-Isopropyltoluene	119	15.307	15.309	(0.986)	581947	20.0000	17.6	
90	1,3-Dichlorobenzene	146	15.400	15.402	(0.992)	355878	20.0000	21.2	
* 91	1,4-Dichlorobenzene-D4	152	15.522	15.517	(1.000)	684775	50.0000		
92	1,4-Dichlorobenzene	146	15.543	15.545	(1.001)	393361	20.0000	20.0	
93	N-Butylbenzene	91	15.980	15.974	(1.029)	587294	20.0000	17.6	
94	sec-Butylbenzene	105	15.079	15.080	(0.971)	704335	20.0000	18.1	
95	1,2-Dichlorobenzene	146	16.215	16.210	(1.045)	355332	20.0000	21.0	
96	1,2-Dibromo-3-Chloropropane	75	17.553	17.547	(1.131)	42450	20.0000	16.5	
97	1,3,5-Trichlorobenzene	180	17.624	17.619	(1.135)	288487	20.0000	20.3	
98	Hexachlorobutadiene	225	18.725	18.727	(1.206)	123089	20.0000	20.5	
99	1,2,4-Trichlorobenzene	180	18.754	18.748	(1.208)	277158	20.0000	21.4	
100	1,2,3-Trimethylbenzene	105	15.586	15.588	(1.004)	678194	20.0000	20.6	
101	Naphthalene	128	19.326	19.328	(1.245)	756250	20.0000	15.4	
102	1,2,3-Trichlorobenzene	180	19.669	19.664	(1.267)	273145	20.0000	21.2	
103	Methyl Acetate	43	5.004	4.999	(0.622)	158809	20.0000	18.1	
104	Methylcyclohexane	83	8.665	8.660	(1.076)	217099	20.0000	17.8	



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Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18

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Report Date: 19-Nov-2013 19:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6754.D
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Inj Date : 19-NOV-2013 12:19
Operator : DJP Inst ID: gcms-d.i
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Cal Date : 19-NOV-2013 12:19 Cal File: D6754.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.075	2.073	(0.258)	51369	5.00000	4.9	
2	Chloromethane	50	2.304	2.303	(0.286)	75491	5.00000	5.4	
3	Vinyl chloride	62	2.411	2.403	(0.299)	57301	5.00000	5.1	
4	Bromomethane	94	2.804	2.804	(0.348)	28466	5.00000	5.5	
5	Chloroethane	64	2.961	2.961	(0.368)	33314	5.00000	5.4	
6	Trichlorofluoromethane	101	3.147	3.140	(0.391)	64455	5.00000	4.7	
7	Diethyl Ether	59	3.555	3.547	(0.442)	33583	5.00000	5.0	
8	Tertiary-butyl alcohol	59	5.350	5.342	(0.664)	24824	25.0000	32.6	
9	1,1-Dichloroethene	96	3.819	3.819	(0.474)	27892	5.00000	4.6	
10	Carbon Disulfide	76	3.862	3.862	(0.480)	105360	5.00000	5.1	
11	Freon-113	151	3.891	3.890	(0.483)	19201	5.00000	5.1	
12	Iodomethane	142	4.020	4.019	(0.499)	23533	5.00000	3.8	
13	Acrolein	56	4.306	4.304	(0.535)	32858	25.0000	23.4	
14	Methylene Chloride	84	4.699	4.691	(0.584)	64734	5.00000	6.0	
15	Acetone	43	4.778	4.770	(0.593)	64752	25.0000	21.8	
16	Isobutyl Alcohol	43	8.245	8.238	(1.024)	39163	100.000	112	
17	trans-1,2-Dichloroethene	96	4.971	4.970	(0.617)	36203	5.00000	4.7	
18	Allyl Chloride	41	4.527	4.527	(0.562)	53294	5.00000	5.0	
19	Methyl tert-butyl ether	73	5.178	5.170	(0.643)	216077	10.0000	9.3	
20	Acetonitrile	39	5.543	5.535	(0.688)	8406	50.0000	37.9	
21	Di-isopropyl ether	45	5.829	5.821	(0.724)	117860	5.00000	4.6	
22	Chloroprene	53	5.950	5.942	(0.739)	46481	5.00000	4.5	
23	Propionitrile	54	7.952	7.945	(0.988)	63440	50.0000	48.0	
24	Methacrylonitrile	41	7.981	7.980	(0.991)	327038	50.0000	55.2	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6754.D
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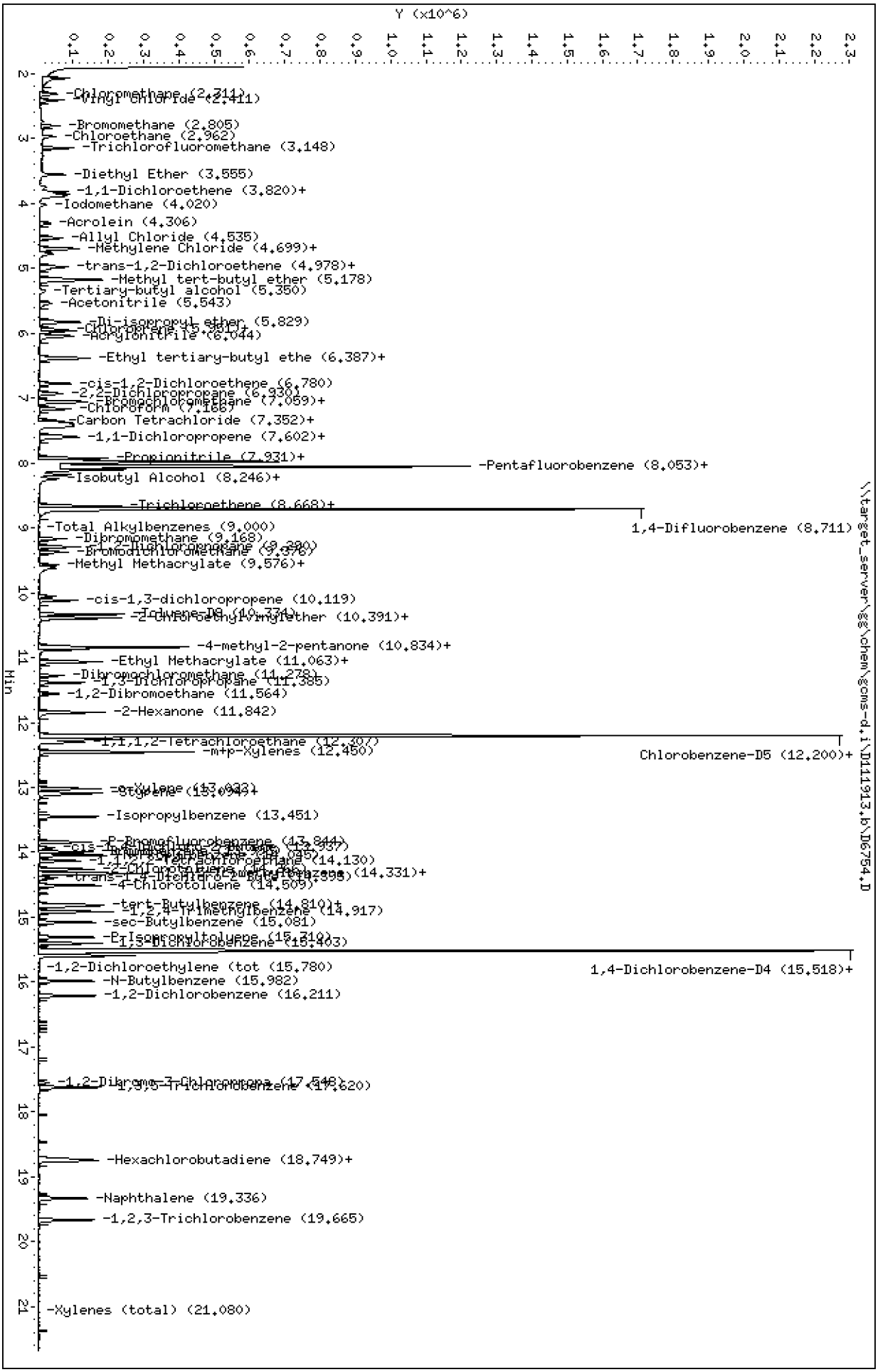
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.972	5.971	(0.742)	69713	5.00000	4.7	
	26 Acrylonitrile	52	6.043	6.035	(0.750)	70410	25.0000	23.8	
	27 Ethyl tertiary-butyl ether	59	6.386	6.379	(0.793)	106908	5.00000	4.6	
	28 Vinyl Acetate	43	6.393	6.386	(0.734)	65697	5.00000	3.7	
	29 cis-1,2-Dichloroethene	96	6.780	6.772	(0.842)	38742	5.00000	4.6	
	31 Methyl Methacrylate	41	9.575	9.575	(1.099)	27546	5.00000	3.8	
	32 2,2-Dichloropropane	77	6.930	6.929	(0.861)	44501	5.00000	4.2	
	33 Bromochloromethane	128	7.051	7.051	(0.876)	18991	5.00000	5.0	
	34 Chloroform	83	7.166	7.165	(0.890)	69974	5.00000	4.7	
	35 Carbon Tetrachloride	117	7.344	7.351	(0.843)	35809	5.00000	4.1	
	36 Tetrahydrofuran	42	7.380	7.373	(0.917)	61427	25.0000	20.8	
$	37 Dibromofluoromethane	113	7.409	7.408	(0.920)	40126	5.00000	5.0	
	38 1,1,1-Trichloroethane	97	7.437	7.437	(0.924)	52530	5.00000	3.9	
	39 1,1-Dichloropropene	75	7.609	7.608	(0.874)	45999	5.00000	3.4	
	40 2-Butanone	43	7.580	7.573	(0.941)	98215	25.0000	19.8	
	41 Benzene	78	7.931	7.923	(0.911)	150721	5.00000	4.6	
*	42 Pentafluorobenzene	168	8.052	8.052	(1.000)	788550	50.0000		
	43 Cyclohexane	56	7.066	7.065	(0.877)	42400	5.00000	3.1	
	44 Ethyl Methacrylate	69	11.070	11.069	(1.271)	39443	5.00000	3.8	
$	45 1,2-Dichloroethane-D4	65	8.095	8.095	(1.005)	57709	5.00000	5.2	
	46 Tertiary-amyl methyl ether	73	8.102	8.102	(1.006)	97554	5.00000	4.6	
	47 1,2-Dichloroethane	62	8.181	8.180	(0.939)	58858	5.00000	4.7	
	48 Trichloroethene	95	8.667	8.667	(0.995)	34418	5.00000	4.4	
*	49 1,4-Difluorobenzene	114	8.710	8.710	(1.000)	1181713	50.0000		
	50 Dibromomethane	93	9.168	9.167	(1.053)	26088	5.00000	4.7	
	51 1,2-Dichloropropane	63	9.289	9.289	(1.066)	36454	5.00000	4.4	
	52 Bromodichloromethane	83	9.375	9.375	(1.076)	49589	5.00000	4.8	
	53 cis-1,3-dichloropropene	75	10.119	10.118	(1.162)	56567	5.00000	4.1	
	54 1,4-Dioxane	88	9.618	9.618	(1.104)	42846	100.000	150	
$	55 Toluene-D8	98	10.333	10.333	(1.186)	137620	5.00000	5.1	
	56 2-Chloroethylvinylether	63	10.390	10.390	(1.193)	12205	5.00000	5.0	
	57 Toluene	92	10.390	10.390	(1.193)	91257	5.00000	3.7	
	58 4-methyl-2-pentanone	43	10.834	10.826	(1.244)	208763	25.0000	24.9	
	59 Tetrachloroethene	164	10.841	10.840	(0.889)	30034	5.00000	4.7	
	60 trans-1,3-Dichloropropene	75	10.869	10.876	(1.248)	52429	5.00000	4.7	
	61 1,1,2-Trichloroethane	83	11.063	11.062	(1.270)	32716	5.00000	4.8	
	62 Dibromochloromethane	129	11.277	11.277	(0.924)	34518	5.00000	4.2	
	63 1,3-Dichloropropane	76	11.384	11.384	(0.933)	68475	5.00000	4.8	
	64 1,2-Dibromoethane	107	11.563	11.555	(1.328)	37359	5.00000	4.6	
	65 2-Hexanone	43	11.842	11.841	(0.971)	125411	25.0000	24.5	
*	66 Chlorobenzene-D5	117	12.199	12.199	(1.000)	1059675	50.0000		
	67 Chlorobenzene	112	12.221	12.220	(1.002)	97440	5.00000	4.8	
	152 1-Chlorohexane	91	12.199	12.199	(1.000)	44758	5.00000	4.2	
	68 Ethylbenzene	106	12.264	12.263	(1.005)	49809	5.00000	4.4	
	69 1,1,1,2-Tetrachloroethane	131	12.307	12.306	(1.009)	33207	5.00000	4.4	
	71 m+p-Xylenes	106	12.450	12.449	(1.021)	120203	10.0000	6.1	
	72 o-Xylene	106	13.022	13.021	(1.067)	46685	5.00000	4.0	
	73 Styrene	104	13.093	13.093	(1.073)	85584	5.00000	3.6	
	74 Bromoform	173	13.115	13.121	(1.075)	22863	5.00000	5.4	
	75 Isopropylbenzene	105	13.458	13.450	(0.867)	114638	5.00000	4.5	
$	76 P-Bromofluorobenzene	95	13.844	13.843	(1.589)	49906	5.00000	4.5	
	77 cis-1,4-Dichloro-2-Butene	53	13.937	13.936	(0.898)	12117	5.00000	4.0	
	78 trans-1,4-Dichloro-2-Butene	53	14.394	14.394	(0.928)	12337	5.00000	4.2	
	79 Bromobenzene	156	13.994	13.994	(0.902)	43781	5.00000	4.9	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6754.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.044	14.044	(0.905)	155628	5.00000	4.7	
81	1,1,2,2-Tetrachloroethane	83	14.130	14.129	(0.911)	59680	5.00000	5.1	
82	1,3,5-Trimethylbenzene	105	14.330	14.330	(0.924)	115871	5.00000	4.7	
83	2-Chlorotoluene	91	14.266	14.265	(0.919)	98404	5.00000	4.7	
84	1,2,3-Trichloropropane	75	14.330	14.330	(0.924)	48716	5.00000	5.1	
85	4-Chlorotoluene	91	14.509	14.508	(0.935)	107915	5.00000	4.9	
86	tert-Butylbenzene	119	14.809	14.809	(0.954)	96083	5.00000	2.5	
87	Pentachloroethane	117	14.831	14.830	(0.956)	28259	5.00000	4.8	
88	1,2,4-Trimethylbenzene	105	14.916	14.916	(0.961)	120982	5.00000	4.8	
89	P-Isopropyltoluene	119	15.310	15.309	(0.987)	93656	5.00000	4.7	
90	1,3-Dichlorobenzene	146	15.403	15.402	(0.993)	75163	5.00000	4.7	
* 91	1,4-Dichlorobenzene-D4	152	15.517	15.517	(1.000)	650153	50.0000		
92	1,4-Dichlorobenzene	146	15.546	15.545	(1.002)	91633	5.00000	4.9	
93	N-Butylbenzene	91	15.982	15.974	(1.030)	95351	5.00000	4.6	
94	sec-Butylbenzene	105	15.081	15.080	(0.972)	118718	5.00000	4.6	
95	1,2-Dichlorobenzene	146	16.218	16.210	(1.045)	73495	5.00000	4.6	
96	1,2-Dibromo-3-Chloropropane	75	17.548	17.547	(1.131)	8267	5.00000	3.7	
97	1,3,5-Trichlorobenzene	180	17.619	17.619	(1.135)	66141	5.00000	4.9	
98	Hexachlorobutadiene	225	18.727	18.727	(1.207)	27816	5.00000	4.9	
99	1,2,4-Trichlorobenzene	180	18.749	18.748	(1.208)	55303	5.00000	4.5	
100	1,2,3-Trimethylbenzene	105	15.589	15.588	(1.005)	156476	5.00000	5.0	
101	Naphthalene	128	19.335	19.328	(1.246)	127420	5.00000	4.9	
102	1,2,3-Trichlorobenzene	180	19.664	19.664	(1.267)	57775	5.00000	4.7	
103	Methyl Acetate	43	5.006	4.999	(0.622)	39742	5.00000	4.9	
104	Methylcyclohexane	83	8.667	8.660	(1.076)	42562	5.00000	3.5	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Date : 19-NOV-2013 12:19
Client ID: Initial Calibration
Sample Info: WG134694-2
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.714)
-Vinyl Chloride (2.811)
-Bromomethane (2.805)
-Chloroethane (2.962)
-Trichlorofluoromethane (3.148)
-Diethyl Ether (3.555)
-1,1-Dichloroethene (3.820)+
-Iodomethane (4.020)
-Acrolein (4.306)
-Allyl Chloride (4.535)
-Methylene Chloride (4.699)+
-trans-1,2-Dichloroethene (4.978)+
-Methyl tert-butyl ether (5.178)
-Tertiary-butyl alcohol (5.350)
-Acetonitrile (5.543)
-Di-isopropyl ether (5.829)
-Acrylonitrile (6.044)
-Ethyl tertiary-butyl ethe (6.387)+
-cis-1,2-Dichloroethene (6.780)
-2,2-Dichloropropane (6.930)+
-Bromochloromethane (7.059)+
-Chloroform (7.168)
-Carbon Tetrachloride (7.352)+
-1,1-Dichloropropene (7.602)+
-Propionitrile (7.931)+
-Pentafluorobenzene (8.053)+
-Isobutyl Alcohol (8.246)+
-Trichloroethene (8.668)+
-Total Alkylbenzenes (9.000)
1,4-Difluorobenzene (8.711)
-Dibromomethane (9.168)
-1,2-Dichloropropane (9.280)
-Bromodichloromethane (9.376)
-Methyl Methacrylate (9.576)+
-cis-1,3-dichloropropene (10.119)
-Toluene-D8 (10.374)
-2-Chloroethylvinylether (10.391)+
-4-methyl-2-pentanone (10.834)+
-Ethyl Methacrylate (11.063)+
-Dibromochloromethane (11.278)
-1,3-Dichloropropane (11.385)
-1,2-Dibromoethane (11.564)
-2-Hexanone (11.842)
-1,1,1,2-Tetrachloroethane (12.207)
-m+p-Xylenes (12.450)
Chlorobenzene-D5 (12.200)+
-o-Xylene (13.033)
-Styrene (13.094)+
-Isopropylbenzene (13.451)
-Bromofluorobenzene (13.844)
-cis-1,4-Dichloro-2-butene (13.937)
-Bromoform (14.045)
-1,1,2,2-Tetrachloroethane (14.130)
-2-Chlorotoluene (14.331)+
-trans-1,4-Dichloro-2-butene (14.395)
-4-Chlorotoluene (14.509)
-tert-Butylbenzene (14.810)+
-1,2,4-Trimethylbenzene (14.917)
-sec-Butylbenzene (15.081)
-p-Isopropyltoluene (15.310)
-1,3-Dichlorobenzene (15.403)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.518)+
-N-Butylbenzene (15.982)
-1,2-Dichlorobenzene (16.211)
-1,2-Dibromo-3-Chloropropa (17.548)
1,3,5-Trichlorobenzene (17.620)
-Hexachlorobutadiene (18.749)+
-Naphthalene (19.336)
-1,2,3-Trichlorobenzene (19.665)
-Xylenes (total) (21.080)
\\target_server\gg\chem\gcms-d.i\D111913.b\D6754.D

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6755.D
Report Date: 19-Nov-2013 19:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6755.D
Lab Smp Id: WG134694-1 Client Smp ID: Initial Calibration
Inj Date : 19-NOV-2013 12:52
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG134694-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D111913.b\D826A38.m
Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.074	2.073	(0.258)	7860	1.00000	0.82(a)	
2	Chloromethane	50	2.310	2.303	(0.287)	14882	1.00000	1.2	
3	Vinyl chloride	62	2.410	2.403	(0.299)	9105	1.00000	0.90(a)	
4	Bromomethane	94	2.803	2.804	(0.348)	5598	1.00000	1.2	
5	Chloroethane	64	2.968	2.961	(0.369)	5993	1.00000	1.1	
6	Trichlorofluoromethane	101	3.146	3.140	(0.391)	9707	1.00000	0.78(a)	WAS
7	Diethyl Ether	59	3.554	3.547	(0.441)	6666	1.00000	1.1	12:31 pm, Dec 02, 2013
8	Tertiary-butyl alcohol	59	5.356	5.342	(0.665)	8485	5.00000	14.2	
9	1,1-Dichloroethene	96	3.819	3.819	(0.474)	4240	1.00000	0.77(a)	
10	Carbon Disulfide	76	3.861	3.862	(0.480)	17814	1.00000	2.7	
11	Freon-113	151	3.883	3.890	(0.482)	2372	1.00000	2.0(M)	M9
12	Iodomethane	142	4.026	4.019	(0.500)	3356	1.00000	0.71(a)	
13	Acrolein	56	4.312	4.304	(0.536)	6294	5.00000	4.9(a)	
14	Methylene Chloride	84	4.698	4.691	(0.584)	27481	1.00000	3.0(a)	
15	Acetone	43	4.777	4.770	(0.593)	14160	5.00000	5.3	
16	Isobutyl Alcohol	43	8.245	8.238	(1.024)	7188	20.0000	22.7	
17	trans-1,2-Dichloroethene	96	4.977	4.970	(0.618)	5935	1.00000	0.85(a)	
18	Allyl Chloride	41	4.526	4.527	(0.562)	7596	1.00000	0.78(a)	
19	Methyl tert-butyl ether	73	5.177	5.170	(0.643)	35164	2.00000	1.7	
20	Acetonitrile	39	5.542	5.535	(0.688)	2161	10.0000	10.7(a)	
21	Di-isopropyl ether	45	5.828	5.821	(0.724)	19045	1.00000	0.82(a)	
22	Chloroprene	53	5.949	5.942	(0.739)	6298	1.00000	0.67(a)	
23	Propionitrile	54	7.959	7.945	(0.988)	10625	10.0000	8.8(a)	
24	Methacrylonitrile	41	7.987	7.980	(0.992)	50066	10.0000	9.3(a)	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6755.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.978	5.971	(0.742)	11715	1.00000	0.87(a)	
	26 Acrylonitrile	52	6.049	6.035	(0.751)	12012	5.00000	4.5(a)	
	27 Ethyl tertiary-butyl ether	59	6.385	6.379	(0.793)	17497	1.00000	0.82(a)	
	28 Vinyl Acetate	43	6.393	6.386	(0.734)	9053	1.00000	0.88(a)	
	29 cis-1,2-Dichloroethene	96	6.772	6.772	(0.841)	6411	1.00000	0.83(a)	
	31 Methyl Methacrylate	41	9.574	9.575	(1.099)	3418	1.00000	0.51(a)	
	32 2,2-Dichloropropane	77	6.929	6.929	(0.861)	6598	1.00000	1.3	
	33 Bromochloromethane	128	7.050	7.051	(0.876)	3301	1.00000	0.95(a)	
	34 Chloroform	83	7.165	7.165	(0.890)	11740	1.00000	0.87(a)	
	35 Carbon Tetrachloride	117	7.344	7.351	(0.843)	4990	1.00000	1.4	
	36 Tetrahydrofuran	42	7.387	7.373	(0.917)	9227	5.00000	4.5(a)	
$	37 Dibromofluoromethane	113	7.415	7.408	(0.921)	7855	1.00000	1.1	
	38 1,1,1-Trichloroethane	97	7.444	7.437	(0.925)	8451	1.00000	0.81(a)	
	40 2-Butanone	43	7.587	7.573	(0.942)	13552	5.00000	3.4(a)	
	41 Benzene	78	7.930	7.923	(0.911)	25547	1.00000	0.86(a)	
*	42 Pentafluorobenzene	168	8.051	8.052	(1.000)	715560	50.0000		
	43 Cyclohexane	56	7.065	7.065	(0.877)	5900	1.00000	0.40(a)	
	44 Ethyl Methacrylate	69	11.076	11.069	(1.272)	5053	1.00000	0.53(a)	
$	45 1,2-Dichloroethane-D4	65	8.094	8.095	(1.005)	11278	1.00000	1.1	
	46 Tertiary-amyl methyl ether	73	8.102	8.102	(1.006)	15548	1.00000	0.80(a)	
	47 1,2-Dichloroethane	62	8.180	8.180	(0.939)	10482	1.00000	0.92(a)	
	48 Trichloroethene	95	8.666	8.667	(0.995)	5594	1.00000	0.78(a)	
*	49 1,4-Difluorobenzene	114	8.709	8.710	(1.000)	1076574	50.0000		
	50 Dibromomethane	93	9.167	9.167	(1.053)	4870	1.00000	0.96(a)	
	51 1,2-Dichloropropane	63	9.288	9.289	(1.066)	6697	1.00000	0.90(a)	
	52 Bromodichloromethane	83	9.374	9.375	(1.076)	7705	1.00000	1.5	
	53 cis-1,3-dichloropropene	75	10.118	10.118	(1.162)	9009	1.00000	1.1	
	54 1,4-Dioxane	88	9.625	9.618	(1.105)	12060	20.0000	17.7(aM)	M9
$	55 Toluene-D8	98	10.332	10.333	(1.186)	22049	1.00000	0.89(a)	
	56 2-Chloroethylvinylether	63	10.397	10.390	(1.194)	1558	1.00000	1.7	
	58 4-methyl-2-pentanone	43	10.833	10.826	(1.244)	25014	5.00000	10.6	
	59 Tetrachloroethene	164	10.840	10.840	(0.889)	4970	1.00000	0.87(a)	
	60 trans-1,3-Dichloropropene	75	10.876	10.876	(1.249)	7389	1.00000	1.6	
	61 1,1,2-Trichloroethane	83	11.062	11.062	(1.270)	6027	1.00000	0.97(a)	
	62 Dibromochloromethane	129	11.276	11.277	(0.924)	5753	1.00000	0.79(a)	
	63 1,3-Dichloropropane	76	11.391	11.384	(0.934)	11645	1.00000	0.92(a)	
	64 1,2-Dibromoethane	107	11.555	11.555	(1.327)	6191	1.00000	0.84(aM)	M6
	65 2-Hexanone	43	11.848	11.841	(0.971)	15216	5.00000	12.9	
*	66 Chlorobenzene-D5	117	12.199	12.199	(1.000)	946966	50.0000		
	67 Chlorobenzene	112	12.220	12.220	(1.002)	18429	1.00000	1.0	
	152 1-Chlorohexane	91	12.206	12.199	(1.001)	8379	1.00000	0.88(a)	
	68 Ethylbenzene	106	12.263	12.263	(1.005)	7924	1.00000	0.78(a)	
	69 1,1,1,2-Tetrachloroethane	131	12.306	12.306	(1.009)	5796	1.00000	0.86(a)	
	72 o-Xylene	106	13.021	13.021	(1.067)	6573	1.00000	1.3	
	73 Styrene	104	13.092	13.093	(1.073)	9461	1.00000	0.72(a)	
	74 Bromoform	173	13.121	13.121	(1.076)	3643	1.00000	2.9(M)	M6
	75 Isopropylbenzene	105	13.450	13.450	(0.867)	14886	1.00000	2.2	
$	76 P-Bromofluorobenzene	95	13.843	13.843	(1.589)	9466	1.00000	0.94(a)	
	77 cis-1,4-Dichloro-2-Butene	53	13.936	13.936	(0.898)	1817	1.00000	0.70(a)	
	78 trans-1,4-Dichloro-2-Butene	53	14.394	14.394	(0.928)	1909	1.00000	0.74(a)	
	79 Bromobenzene	156	14.000	13.994	(0.902)	6004	1.00000	0.77(a)	
	80 N-Propylbenzene	91	14.043	14.044	(0.905)	17691	1.00000	2.2	
	81 1,1,2,2-Tetrachloroethane	83	14.129	14.129	(0.911)	10212	1.00000	1.00	
	82 1,3,5-Trimethylbenzene	105	14.329	14.330	(0.924)	13242	1.00000	2.1	

WAS

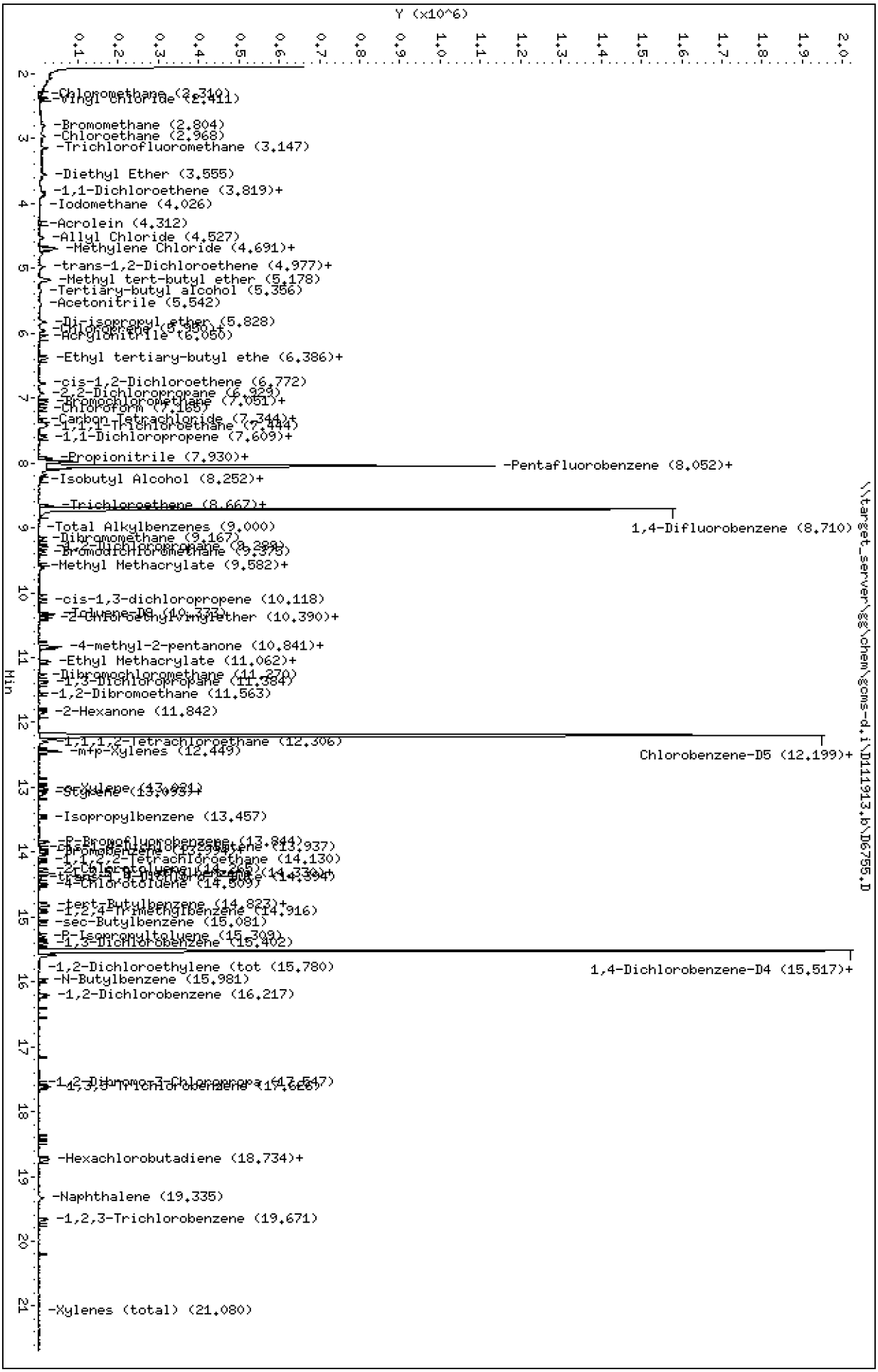
12:31 pm, Dec 02, 2013

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6755.D
Report Date: 19-Nov-2013 19:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
83	2-Chlorotoluene	91	14.265	14.265	(0.919)	12784	1.00000	1.9	
84	1,2,3-Trichloropropane	75	14.329	14.330	(0.924)	8187	1.00000	0.98(a)	
85	4-Chlorotoluene	91	14.508	14.508	(0.935)	13440	1.00000	1.9	
88	1,2,4-Trimethylbenzene	105	14.916	14.916	(0.961)	13503	1.00000	2.3	
89	P-Isopropyltoluene	119	15.309	15.309	(0.987)	11087	1.00000	2.5	
90	1,3-Dichlorobenzene	146	15.409	15.402	(0.993)	11268	1.00000	0.81(a)	
* 91	1,4-Dichlorobenzene-D4	152	15.516	15.517	(1.000)	568294	50.0000		
92	1,4-Dichlorobenzene	146	15.545	15.545	(1.002)	17391	1.00000	1.1	
93	N-Butylbenzene	91	15.981	15.974	(1.030)	13260	1.00000	2.5	
94	sec-Butylbenzene	105	15.080	15.080	(0.972)	14513	1.00000	2.3	
95	1,2-Dichlorobenzene	146	16.217	16.210	(1.045)	11876	1.00000	0.85(a)	
96	1,2-Dibromo-3-Chloropropane	75	17.547	17.547	(1.131)	1292	1.00000	1.0	
97	1,3,5-Trichlorobenzene	180	17.626	17.619	(1.136)	11483	1.00000	0.97(a)	
98	Hexachlorobutadiene	225	18.727	18.727	(1.207)	6101	1.00000	1.2	
99	1,2,4-Trichlorobenzene	180	18.755	18.748	(1.209)	8637	1.00000	0.80(a)	
100	1,2,3-Trimethylbenzene	105	15.588	15.588	(1.005)	24737	1.00000	0.91(a)	
101	Naphthalene	128	19.334	19.328	(1.246)	13743	1.00000	3.1	
102	1,2,3-Trichlorobenzene	180	19.663	19.664	(1.267)	9553	1.00000	0.89(a)	
103	Methyl Acetate	43	5.020	4.999	(0.623)	6657	1.00000	0.90(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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Date : 19-NOV-2013 12:52
Client ID: Initial Calibration
Sample Info: WG134694-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D111913.b\D6755.D
Y (x10^6)
Min
-Chloromethane (2.340)
-Vinyl Chloride (2.411)
-Bromomethane (2.804)
-Chloroethane (2.968)
-Trichlorofluoromethane (3.147)
-Diethyl Ether (3.555)
-1,1-Dichloroethene (3.819)+
-Iodomethane (4.026)
-Acrolein (4.312)
-Allyl Chloride (4.527)
-Methylene Chloride (4.691)+
-trans-1,2-Dichloroethene (4.977)+
-Methyl tert-butyl ether (5.178)
-Tertiary-butyl alcohol (5.356)
-Acetonitrile (5.542)
-Diisopropyl ether (5.828)
-Chloroprene (5.966)+
-Acrylonitrile (6.050)
-Ethyl tertiary-butyl ethe (6.386)+
-cis-1,2-Dichloroethene (6.772)
-2,2-Dichloropropane (6.929)
-Bromochloromethane (7.051)+
-Chloroform (7.165)
-Carbon Tetrachloride (7.344)+
-1,1,1-Trichloroethane (7.444)
-1,1-Dichloropropene (7.609)+
-Propionitrile (7.930)+
-Pentafluorobenzene (8.052)+
-Isobutyl Alcohol (8.252)+
-Trichloroethene (8.667)+
-Total Alkylbenzenes (9.000)
1,4-Difluorobenzene (8.710)
-Dibromomethane (9.167)
-1,2-Dichloropropane (9.289)
-Bromodichloromethane (9.375)
-Methyl Methacrylate (9.582)+
-cis-1,3-dichloropropene (10.118)
-Toluene-D8 (10.378)
-2-Chloroethyl vinyl ether (10.390)+
-4-methyl-2-pentanone (10.841)+
-Ethyl Methacrylate (11.062)+
-Dibromochloromethane (11.270)
-1,3-Dichloropropane (11.384)
-1,2-Dibromoethane (11.563)
-2-Hexanone (11.842)
-1,1,1,2-Tetrachloroethane (12.306)
-m+p-Xylenes (12.449)
Chlorobenzene-D5 (12.199)+
-o-Xylene (13.021)
-Styrene (13.093)+
-Isopropylbenzene (13.457)
-Bromobenzene (13.594)+
-1,1,2,2-Tetrachloroethane (14.130)
-trans-1,4-Dichloro-2-butene (14.304)+
-4-Chlorotoluene (14.509)
-tert-Butylbenzene (14.823)+
-1,2,4-Trimethylbenzene (14.916)
-sec-Butylbenzene (15.081)
-p-Isopropyltoluene (15.309)
-1,3-Dichlorobenzene (15.402)
-1,2-Dichloroethylene (tot (15.780)
1,4-Dichlorobenzene-D4 (15.517)+
-N-Butylbenzene (15.981)
-1,2-Dichlorobenzene (16.217)
-1,2-Dibromo-3-Chloropropa (17.547)
-1,3,5-Trichlorobenzene (17.628)
-Hexachlorobutadiene (18.734)+
-Naphthalene (19.335)
-1,2,3-Trichlorobenzene (19.671)
-Xylenes (total) (21.080)

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Report Date: 02-Dec-2013 12:32

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
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Inj Date : 19-NOV-2013 13:42
Operator : DJP Inst ID: gcms-d.i
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Comment : SW846 5030
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Meth Date : 19-Nov-2013 19:48 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.071	2.073	(0.257)	364039	35.3447	35.3(R)	
2	Chloromethane	50	2.307	2.303	(0.287)	520822	38.2897	38.3(R)	
3	Vinyl chloride	62	2.407	2.403	(0.299)	476978	43.4737	43.5	
4	Bromomethane	94	2.801	2.804	(0.348)	227162	44.5698	44.6	
5	Chloroethane	64	2.965	2.961	(0.368)	301858	49.9639	50.0	
6	Trichlorofluoromethane	101	3.144	3.140	(0.391)	640156	47.7158	47.7	
7	Diethyl Ether	59	3.552	3.547	(0.441)	323405	48.9346	48.9	
8	Tertiary-butyl alcohol	59	5.346	5.342	(0.664)	44269	57.7607	57.8(R)	
9	1,1-Dichloroethene	96	3.823	3.819	(0.475)	335809	56.5679	56.6	
10	Carbon Disulfide	76	3.859	3.862	(0.479)	1308462	43.1576	43.2	
11	Freon-113	151	3.888	3.890	(0.483)	203355	44.5231	44.5	
12	Iodomethane	142	4.016	4.019	(0.499)	290640	46.3307	46.3	
13	Acrolein	56	4.302	4.304	(0.535)	318513	231.312	231	
14	Methylene Chloride	84	4.696	4.691	(0.583)	468575	46.1322	46.1	
15	Acetone	43	4.774	4.770	(0.593)	197435	67.9389	67.9(R)	
16	Isobutyl Alcohol	43	8.242	8.238	(1.024)	82869	242.226	242(R)	
17	trans-1,2-Dichloroethene	96	4.974	4.970	(0.618)	396139	52.3187	52.3	
18	Allyl Chloride	41	4.531	4.527	(0.563)	580604	55.4381	55.4	
19	Methyl tert-butyl ether	73	5.175	5.170	(0.643)	2321643	101.787	102	
20	Acetonitrile	39	5.532	5.535	(0.687)	69532	319.819	320(R)	
21	Di-isopropyl ether	45	5.818	5.821	(0.723)	1310993	52.3994	52.4	
22	Chloroprene	53	5.947	5.942	(0.739)	543577	53.6002	53.6	
23	Propionitrile	54	7.949	7.945	(0.988)	508106	391.979	392(R)	
24	Methacrylonitrile	41	7.977	7.980	(0.991)	2898813	499.014	499	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Report Date: 02-Dec-2013 12:32

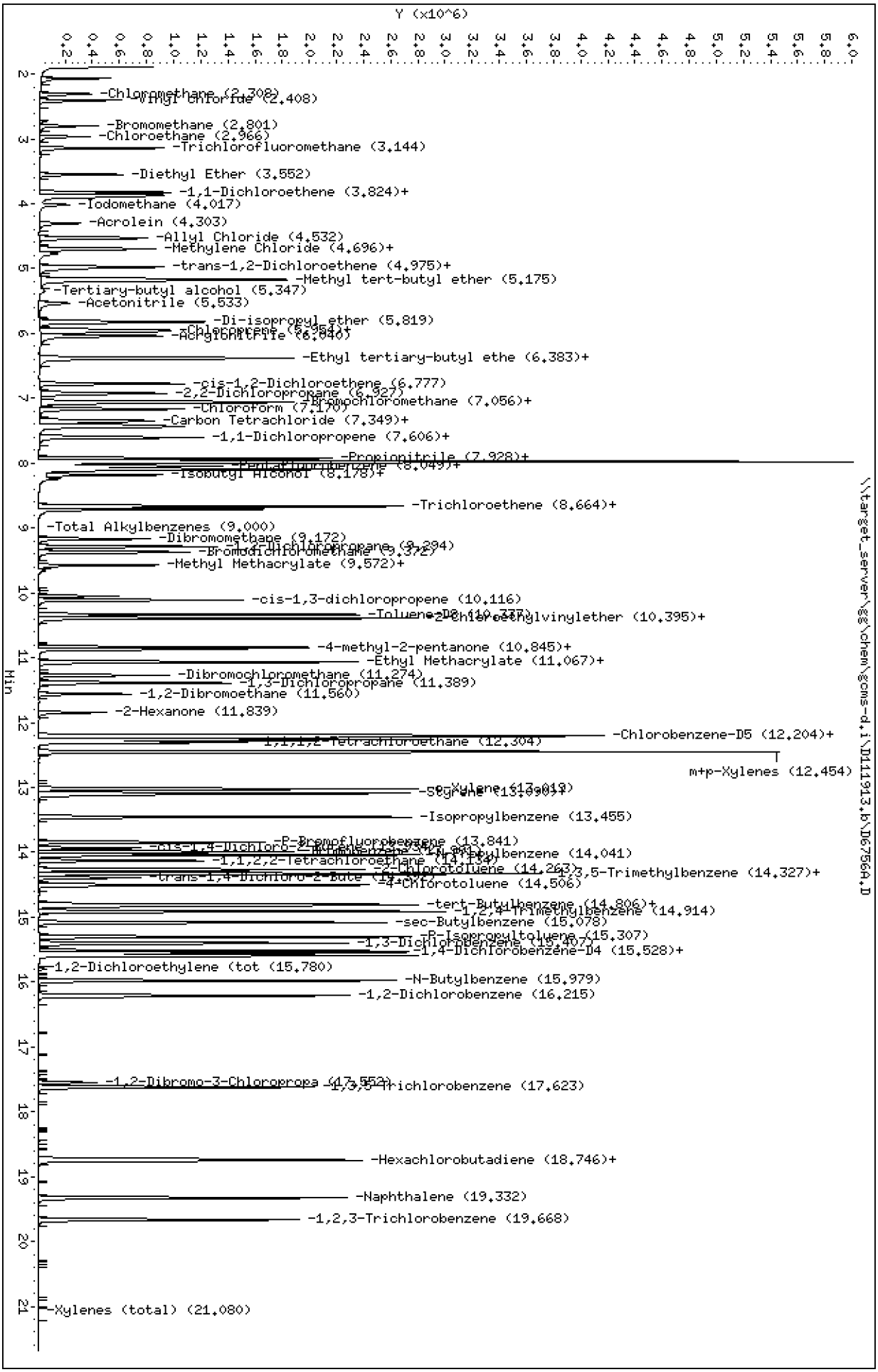
			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.975	5.971	(0.742)	793840	54.4049	54.4	
	26	Acrylonitrile	52	6.040	6.035	(0.750)	676822	233.068	233	
	27	Ethyl tertiary-butyl ether	59	6.383	6.379	(0.793)	1190985	51.9611	52.0	
	28	Vinyl Acetate	43	6.383	6.386	(0.733)	1146420	59.7775	59.8	
	29	cis-1,2-Dichloroethene	96	6.776	6.772	(0.842)	441121	52.9251	52.9	
M	30	1,2-Dichloroethylene (total)	96				837260	105.244	105	
	31	Methyl Methacrylate	41	9.572	9.575	(1.098)	391226	54.0420	54.0	
	32	2,2-Dichloropropane	77	6.926	6.929	(0.861)	617395	49.8138	49.8	
	33	Bromochloromethane	128	7.048	7.051	(0.876)	201958	54.0423	54.0	
	34	Chloroform	83	7.169	7.165	(0.891)	786070	53.7133	53.7	
	35	Carbon Tetrachloride	117	7.348	7.351	(0.843)	526814	48.6265	48.6	
	36	Tetrahydrofuran	42	7.384	7.373	(0.917)	122111	40.9972	41.0	
$	37	Dibromofluoromethane	113	7.413	7.408	(0.921)	379494	48.3576	48.4	
	38	1,1,1-Trichloroethane	97	7.441	7.437	(0.924)	664145	49.1257	49.1	
	39	1,1-Dichloropropene	75	7.606	7.608	(0.873)	557246	48.0113	48.0	
	40	2-Butanone	43	7.584	7.573	(0.942)	238148	48.3892	48.4	
	41	Benzene	78	7.927	7.923	(0.910)	1719316	52.9681	53.0	
*	42	Pentafluorobenzene	168	8.049	8.052	(1.000)	772880	50.0000		
	43	Cyclohexane	56	7.062	7.065	(0.877)	705387	54.1510	54.2	
	44	Ethyl Methacrylate	69	11.073	11.069	(1.271)	562571	53.9712	54.0	
$	45	1,2-Dichloroethane-D4	65	8.092	8.095	(1.005)	514529	47.0923	47.1	
	46	Tertiary-amyl methyl ether	73	8.099	8.102	(1.006)	1049017	50.1586	50.2	
	47	1,2-Dichloroethane	62	8.178	8.180	(0.938)	639335	51.6603	51.7	
	48	Trichloroethene	95	8.671	8.667	(0.995)	415530	53.4148	53.4	
*	49	1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1172406	50.0000		
	50	Dibromomethane	93	9.164	9.167	(1.052)	285255	51.4395	51.4	
	51	1,2-Dichloropropane	63	9.293	9.289	(1.066)	436515	53.7686	53.8	
	52	Bromodichloromethane	83	9.372	9.375	(1.075)	633655	50.9896	51.0	
	53	cis-1,3-dichloropropene	75	10.115	10.118	(1.161)	736968	47.5320	47.5	
	54	1,4-Dioxane	88	9.615	9.618	(1.103)	13825	20.7126	20.7(RM)	M6
$	55	Toluene-D8	98	10.337	10.333	(1.186)	1365675	50.6809	50.7	
	56	2-Chloroethylvinylether	63	10.394	10.390	(1.193)	148494	48.0004	48.0	
	57	Toluene	92	10.394	10.390	(1.193)	1066008	49.6380	49.6	
	58	4-methyl-2-pentanone	43	10.830	10.826	(1.243)	427981	42.8931	42.9	
	59	Tetrachloroethene	164	10.845	10.840	(0.889)	344657	53.7444	53.7	
	60	trans-1,3-Dichloropropene	75	10.873	10.876	(1.248)	680594	49.0128	49.0	
	61	1,1,2-Trichloroethane	83	11.059	11.062	(1.269)	348148	51.7071	51.7	
	62	Dibromochloromethane	129	11.274	11.277	(0.924)	440134	54.0052	54.0	
	63	1,3-Dichloropropane	76	11.388	11.384	(0.933)	741147	51.9535	52.0	
	64	1,2-Dibromoethane	107	11.560	11.555	(1.327)	418593	52.0420	52.0	
	65	2-Hexanone	43	11.839	11.841	(0.970)	318447	45.6173	45.6	
*	66	Chlorobenzene-D5	117	12.203	12.199	(1.000)	1065043	50.0000		
	67	Chlorobenzene	112	12.225	12.220	(1.002)	1152659	56.0956	56.1	
	152	1-Chlorohexane	91	12.203	12.199	(1.000)	578751	54.0922	54.1	
	68	Ethylbenzene	106	12.260	12.263	(1.005)	613737	53.7766	53.8	
	69	1,1,1,2-Tetrachloroethane	131	12.303	12.306	(1.008)	409266	54.1134	54.1	
M	70	Xylenes (total)	106				2266171	159.156	159	
	71	m+p-Xylenes	106	12.453	12.449	(1.021)	1530320	107.678	108	
	72	o-Xylene	106	13.018	13.021	(1.067)	735851	51.4781	51.5	
	73	Styrene	104	13.090	13.093	(1.073)	1257601	49.4027	49.4	
	74	Bromoform	173	13.118	13.121	(1.075)	322869	45.6423	45.6	
	75	Isopropylbenzene	105	13.454	13.450	(0.867)	1826897	49.3792	49.4	
$	76	P-Bromofluorobenzene	95	13.841	13.843	(1.588)	556920	50.8617	50.9	
	77	cis-1,4-Dichloro-2-Butene	53	13.934	13.936	(0.898)	164319	51.9680	52.0	

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Report Date: 02-Dec-2013 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.391	14.394	(0.927)	155795	49.7518	49.8	
	79 Bromobenzene	156	13.991	13.994	(0.901)	509635	53.9518	54.0	
	80 N-Propylbenzene	91	14.041	14.044	(0.905)	2290947	51.4478	51.4	
	81 1,1,2,2-Tetrachloroethane	83	14.134	14.129	(0.911)	608450	49.1892	49.2	
	82 1,3,5-Trimethylbenzene	105	14.334	14.330	(0.924)	1590259	44.9569	45.0	
	83 2-Chlorotoluene	91	14.262	14.265	(0.919)	1393135	49.8802	49.9	
	84 1,2,3-Trichloropropane	75	14.327	14.330	(0.923)	491629	48.6166	48.6	
	85 4-Chlorotoluene	91	14.506	14.508	(0.935)	1515092	51.7276	51.7	
	86 tert-Butylbenzene	119	14.806	14.809	(0.954)	1513871	55.3856	55.4	
	87 Pentachloroethane	117	14.827	14.830	(0.955)	332741	53.1105	53.1	
	88 1,2,4-Trimethylbenzene	105	14.913	14.916	(0.961)	1710612	45.6841	45.7	
	89 P-Isopropyltoluene	119	15.306	15.309	(0.986)	1649817	49.5908	49.6	
	90 1,3-Dichlorobenzene	146	15.406	15.402	(0.993)	980095	58.2389	58.2	
*	91 1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	688321	50.0000		
	92 1,4-Dichlorobenzene	146	15.542	15.545	(1.001)	1011459	51.2158	51.2	
	93 N-Butylbenzene	91	15.978	15.974	(1.029)	1564105	46.9901	47.0	
	94 sec-Butylbenzene	105	15.078	15.080	(0.971)	1943861	50.3233	50.3	
	95 1,2-Dichlorobenzene	146	16.214	16.210	(1.045)	994287	58.5462	58.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.544	17.547	(1.130)	120115	45.5901	45.6	
	97 1,3,5-Trichlorobenzene	180	17.623	17.619	(1.135)	721758	50.5630	50.6	
	98 Hexachlorobutadiene	225	18.731	18.727	(1.207)	300077	49.7240	49.7	
	99 1,2,4-Trichlorobenzene	180	18.753	18.748	(1.208)	719665	55.3029	55.3	
	100 1,2,3-Trimethylbenzene	105	15.592	15.588	(1.005)	1710148	51.7333	51.7	
	101 Naphthalene	128	19.332	19.328	(1.246)	1929866	40.2692	40.3	
	102 1,2,3-Trichlorobenzene	180	19.668	19.664	(1.267)	688662	53.0528	53.0	
	103 Methyl Acetate	43	5.003	4.999	(0.622)	326012	41.0141	41.0	
	104 Methylcyclohexane	83	8.664	8.660	(1.076)	545711	49.7585	49.8	
M	153 Total Alkylbenzenes	100				12263472	344.379	344	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Date : 19-NOV-2013 13:42
Client ID: Independent Source
Sample Info: WG134694-12,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D111913.b\D6756A.D
Y (x10^6)
Min
-Chloromethane (2.308)
-Vinyl Chloride (2.408)
-Bromomethane (2.801)
-Chloroethane (2.966)
-Trichlorofluoromethane (3.144)
-Diethyl Ether (3.552)
-1,1-Dichloroethene (3.824)+
-Iodomethane (4.017)
-Acrolein (4.303)
-Allyl Chloride (4.532)
-Methylene Chloride (4.696)+
-trans-1,2-Dichloroethene (4.975)+
-Methyl tert-butyl ether (5.175)
-Tertiary-butyl alcohol (5.347)
-Acetonitrile (5.533)
-Di-isopropyl ether (5.819)
-Chloroprene (6.366)+
-Acrylonitrile (6.540)
-Ethyl tertiary-butyl ethe (6.383)+
-cis-1,2-Dichloroethene (6.777)
-2,2-Dichloropropane (6.927)
-Bromochloromethane (7.056)+
-Chloroform (7.170)
-Carbon Tetrachloride (7.349)+
-1,1-Dichloropropene (7.606)+
-Propionitrile (7.928)+
-Pentafluorobenzene (8.049)+
-Isobutyl Alcohol (8.178)+
-Trichloroethene (8.664)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.172)
-1,2-Dichloropropane (9.294)
-Bromodichloromethane (9.372)
-Methyl Methacrylate (9.572)+
-cis-1,3-dichloropropene (10.116)
-Toluene-D8 (10.337)
-2-Chloroethylvinylether (10.395)+
-4-methyl-2-pentanone (10.845)+
-Ethyl Methacrylate (11.067)+
-Dibromochloromethane (11.274)
-1,3-Dichloropropane (11.389)
-1,2-Dibromoethane (11.560)
-2-Hexanone (11.839)
-Chlorobenzene-D5 (12.204)+
1,1,1,2-Tetrachloroethane (12.304)
m+p-Xylenes (12.454)
-o-Xylene (13.013)
-Styrene (13.090)+
-Isopropylbenzene (13.455)
-P-Bromofluorobenzene (13.841)
-cis-1,4-Dichloro-2-Butene (13.941)
-n-Propylbenzene (14.041)
-1,1,2,2-Tetrachloroethane (14.134)
-Bromobenzene (14.167)
-2-Chlorotoluene (14.263)
-1,3,5-Trimethylbenzene (14.327)+
-trans-1,4-Dichloro-2-Bute
-4-Chlorotoluene (14.506)
-tert-Butylbenzene (14.806)+
-1,2,4-Trimethylbenzene (14.914)
-sec-Butylbenzene (15.078)
-P-Isopropyltoluene (15.307)
-1,3-Dichlorobenzene (15.407)
-1,4-Dichlorobenzene-D4 (15.528)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.979)
-1,2-Dichlorobenzene (16.215)
-1,2-Dibromo-3-Chloropropa (17.552)
-1,3,5-Trichlorobenzene (17.623)
-Hexachlorobutadiene (18.746)+
-Naphthalene (19.332)
-1,2,3-Trichlorobenzene (19.668)
-Xylenes (total) (21.080)

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 **SDG:** WE40-1
Lab ID : WG134916-4 **Analytical Date:** 11/22/13 08:17
Lab File ID : C4417.D **Instrument ID:** GCMS-C
Initial Calibration Date(s): 11/13/13 10:01 11/13/13 12:38 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
19 Methyl tert-butyl ether	1.03548	1.05058	1.05058	0.010	1.45810	20.00000	Averaged	
41 Benzene	0.92118	0.98103	0.98103	0.010	6.49744	20.00000	Averaged	
57 Toluene	0.57301	0.60140	0.60140	0.010	4.95495	20.00000	Averaged	
68 Ethylbenzene	0.34948	0.35017	0.35017	0.010	0.19802	20.00000	Averaged	
70 Xylenes (total)	++++	0.41151	0.41151	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.40593	0.41987	0.41987	0.010	3.43252	20.00000	Averaged	
72 o-Xylene	0.38136	0.39481	0.39481	0.010	3.52605	20.00000	Averaged	
37 Dibromofluoromethane	0.38135	0.33762	0.33762	0.010	-11.46861	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.41325	0.38666	0.38666	0.010	-6.43609	20.00000	Averaged	
55 Toluene-D8	0.73051	0.67647	0.67647	0.010	-7.39771	20.00000	Averaged	
76 P-Bromofluorobenzene	0.34118	0.31030	0.31030	0.010	-9.05050	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4417.D
Report Date: 02-Dec-2013 12:01

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112213.b\C4417.D
Lab Smp Id: WG134916-4 Client Smp ID: ontinuing Calibrati
Inj Date : 22-NOV-2013 08:17
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134916-4,WE40-1
Misc Info : WG134916,WG134365-4,SG9044-10
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112213.b\C826A90.m
Meth Date : 02-Dec-2013 12:00 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

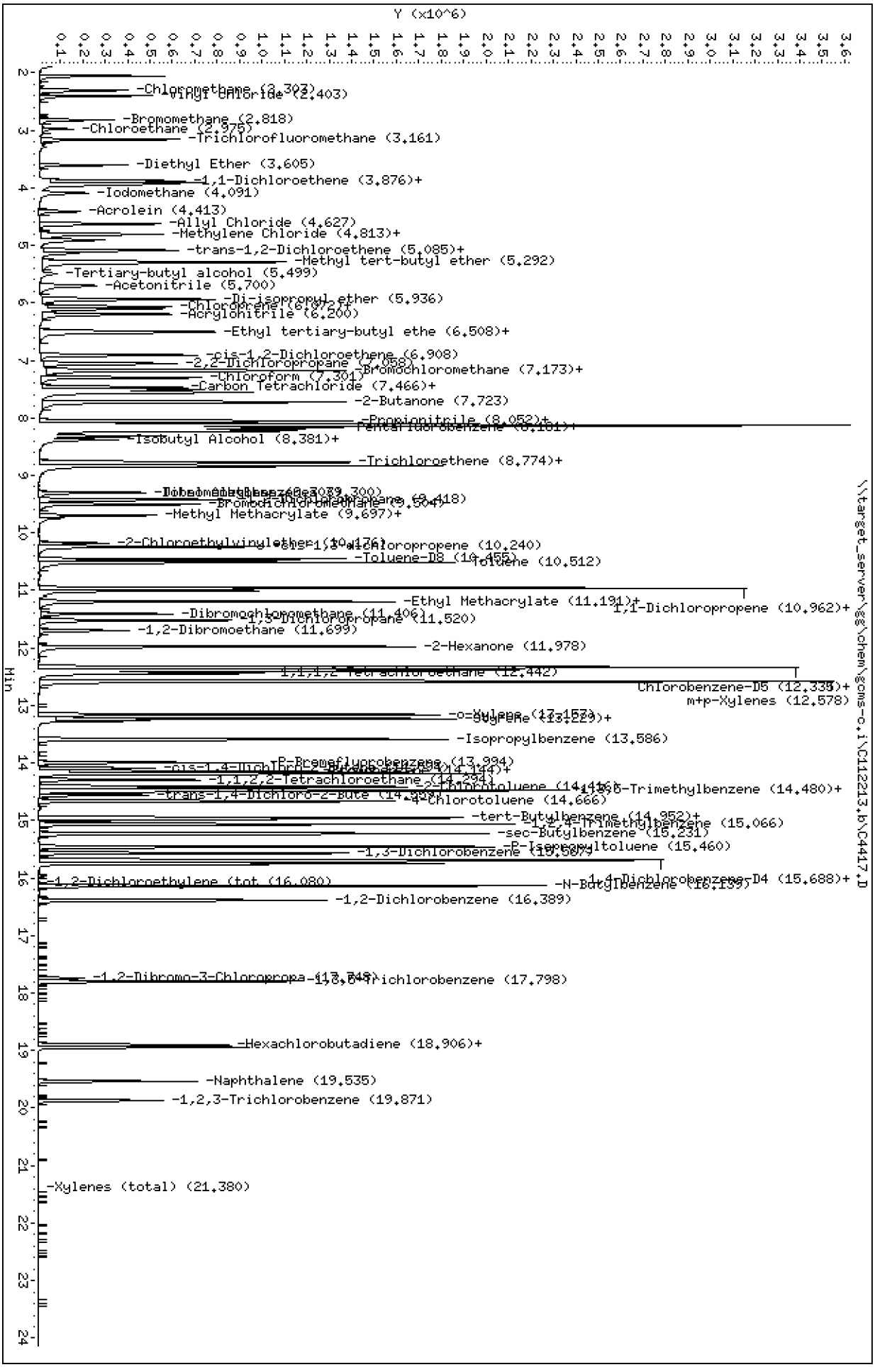
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.053	2.051	(0.251)	423642	50.0000	50.7	
2	Chloromethane	50	2.303	2.301	(0.282)	481040	50.0000	42.6	
3	Vinyl chloride	62	2.403	2.401	(0.294)	400355	50.0000	47.8	
4	Bromomethane	94	2.818	2.816	(0.344)	192836	50.0000	44.0	
5	Chloroethane	64	2.975	2.980	(0.364)	116669	50.0000	29.6	
6	Trichlorofluoromethane	101	3.161	3.166	(0.386)	500850	50.0000	57.4	
7	Diethyl Ether	59	3.604	3.602	(0.441)	216272	50.0000	42.3	
8	Tertiary-butyl alcohol	59	5.499	5.490	(0.672)	114999	250.000	202	
9	1,1-Dichloroethene	96	3.876	3.881	(0.474)	239443	50.0000	54.6	
10	Carbon Disulfide	76	3.912	3.917	(0.478)	997284	50.0000	58.8	
11	Freon-113	151	3.947	3.946	(0.483)	125731	50.0000	45.3	
12	Iodomethane	142	4.090	4.089	(0.500)	281310	50.0000	66.4	
13	Acrolein	56	4.412	4.410	(0.539)	193515	250.000	185	
14	Methylene Chloride	84	4.805	4.811	(0.587)	364991	50.0000	52.9	
15	Acetone	43	4.906	4.904	(0.600)	552486	250.000	259	
16	Isobutyl Alcohol	43	8.380	8.379	(1.024)	225960	1000.00	946	
17	trans-1,2-Dichloroethene	96	5.084	5.090	(0.622)	287996	50.0000	49.9	
18	Allyl Chloride	41	4.627	4.632	(0.566)	432469	50.0000	39.6	
19	Methyl tert-butyl ether	73	5.292	5.290	(0.647)	1534929	100.000	101	
20	Acetonitrile	39	5.699	5.697	(0.697)	91712	500.000	438	
21	Di-isopropyl ether	45	5.935	5.940	(0.726)	925897	50.0000	42.6	
22	Chloroprene	53	6.071	6.069	(0.742)	410041	50.0000	45.6	
23	Propionitrile	54	8.102	8.106	(0.990)	432428	500.000	434	
24	Methacrylonitrile	41	8.130	8.128	(0.994)	1855319	500.000	424	

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4417.D
Report Date: 02-Dec-2013 12:01

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.107	6.105	(0.747)	592619	50.0000	52.1	
	26	Acrylonitrile	52	6.200	6.198	(0.758)	453203	250.000	209	
	27	Ethyl tertiary-butyl ether	59	6.500	6.498	(0.795)	783605	50.0000	45.4	
	28	Vinyl Acetate	43	6.521	6.520	(0.738)	619847	50.0000	51.0	
	29	cis-1,2-Dichloroethene	96	6.908	6.913	(0.844)	310103	50.0000	47.8	
	31	Methyl Methacrylate	41	9.696	9.694	(1.097)	257755	50.0000	47.2	
	32	2,2-Dichloropropane	77	7.058	7.056	(0.863)	484244	50.0000	56.9	
	33	Bromochloromethane	128	7.186	7.185	(0.879)	127416	50.0000	49.3	
	34	Chloroform	83	7.301	7.299	(0.892)	604316	50.0000	53.2	
	35	Carbon Tetrachloride	117	7.465	7.463	(0.845)	432985	50.0000	60.6	
	36	Tetrahydrofuran	42	7.501	7.506	(0.917)	500961	250.000	250	
$	37	Dibromofluoromethane	113	7.544	7.549	(0.922)	246634	50.0000	44.3	
	38	1,1,1-Trichloroethane	97	7.558	7.564	(0.924)	548007	50.0000	57.1	
	39	1,1-Dichloropropene	75	11.005	11.003	(1.245)	486687	50.0000	56.5	
	40	2-Butanone	43	7.723	7.721	(0.944)	804934	250.000	260	
	41	Benzene	78	8.052	8.057	(0.911)	1237973	50.0000	53.2	
*	42	Pentafluorobenzene	168	8.180	8.178	(1.000)	730513	50.0000		
	43	Cyclohexane	56	7.172	7.170	(0.877)	560166	50.0000	55.7	
	44	Ethyl Methacrylate	69	11.190	11.189	(1.266)	368156	50.0000	49.0	
$	45	1,2-Dichloroethane-D4	65	8.230	8.228	(1.006)	282457	50.0000	46.8	
	46	Tertiary-amyl methyl ether	73	8.216	8.214	(1.004)	663332	50.0000	44.5	
	47	1,2-Dichloroethane	62	8.316	8.314	(0.941)	427254	50.0000	60.2	
	48	Trichloroethene	95	8.788	8.786	(0.994)	300851	50.0000	54.1	
*	49	1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1261910	50.0000		
	50	Dibromomethane	93	9.303	9.301	(1.053)	201232	50.0000	52.2	
	51	1,2-Dichloropropane	63	9.417	9.423	(1.066)	316790	50.0000	52.9	
	52	Bromodichloromethane	83	9.503	9.501	(1.075)	471403	50.0000	56.5	
	53	cis-1,3-dichloropropene	75	10.240	10.245	(1.159)	561058	50.0000	54.6	
	54	1,4-Dioxane	88	9.746	9.737	(1.103)	67306	1000.00	761	
$	55	Toluene-D8	98	10.454	10.452	(1.183)	853641	50.0000	46.3	
	56	2-Chloroethylvinylether	63	10.175	10.181	(1.151)	120150	50.0000	49.2	
	57	Toluene	92	10.511	10.509	(1.189)	758913	50.0000	52.5	
	58	4-methyl-2-pentanone	43	10.962	10.960	(1.240)	1516019	250.000	270	
	59	Tetrachloroethene	164	10.955	10.960	(0.888)	224474	50.0000	53.8	
	60	trans-1,3-Dichloropropene	75	11.005	11.003	(1.245)	486687	50.0000	56.5	
	61	1,1,2-Trichloroethane	83	11.190	11.196	(1.266)	245817	50.0000	52.2	
	62	Dibromochloromethane	129	11.405	11.410	(0.925)	318017	50.0000	54.6	
	63	1,3-Dichloropropane	76	11.519	11.525	(0.934)	545210	50.0000	53.0	
	64	1,2-Dibromoethane	107	11.698	11.696	(1.324)	287523	50.0000	51.1	
	65	2-Hexanone	43	11.977	11.975	(0.971)	1117919	250.000	264	
*	66	Chlorobenzene-D5	117	12.335	12.340	(1.000)	1230733	50.0000		
	67	Chlorobenzene	112	12.356	12.361	(1.002)	722528	50.0000	50.1	
	152	1-Chlorohexane	91	12.327	12.326	(0.999)	492145	50.0000	48.6	
	68	Ethylbenzene	106	12.392	12.390	(1.005)	430967	50.0000	50.1	
	69	1,1,1,2-Tetrachloroethane	131	12.442	12.440	(1.009)	285937	50.0000	51.7	
	71	m+p-Xylenes	106	12.578	12.583	(1.020)	1033491	100.000	103	
	72	o-Xylene	106	13.157	13.155	(1.067)	485900	50.0000	51.8	
	73	Styrene	104	13.228	13.226	(1.072)	905735	50.0000	53.1	
	74	Bromoform	173	13.271	13.269	(1.076)	200743	50.0000	52.6	
	75	Isopropylbenzene	105	13.586	13.591	(0.866)	1330145	50.0000	48.2	
$	76	P-Bromofluorobenzene	95	13.993	13.992	(1.583)	391568	50.0000	45.5	
	77	cis-1,4-Dichloro-2-Butene	53	14.093	14.092	(0.898)	120095	50.0000	44.7	
	78	trans-1,4-Dichloro-2-Butene	53	14.558	14.556	(0.928)	110627	50.0000	45.8	
	79	Bromobenzene	156	14.144	14.149	(0.902)	321547	50.0000	48.2	

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4417.D
Report Date: 02-Dec-2013 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.186	14.185	(0.904)	1755107	50.0000	49.0	
81	1,1,2,2-Tetrachloroethane	83	14.294	14.292	(0.911)	423599	50.0000	46.2	
82	1,3,5-Trimethylbenzene	105	14.472	14.478	(0.923)	1295472	50.0000	50.0	
83	2-Chlorotoluene	91	14.415	14.413	(0.919)	1097016	50.0000	50.0	
84	1,2,3-Trichloropropane	75	14.494	14.492	(0.924)	343231	50.0000	47.0	
85	4-Chlorotoluene	91	14.665	14.664	(0.935)	1117173	50.0000	48.8	
86	tert-Butylbenzene	119	14.951	14.957	(0.953)	1149071	50.0000	48.0	
87	Pentachloroethane	117	14.987	14.985	(0.955)	249421	50.0000	44.0	
88	1,2,4-Trimethylbenzene	105	15.066	15.064	(0.960)	1288842	50.0000	50.3	
89	P-Isopropyltoluene	119	15.459	15.457	(0.985)	1260013	50.0000	49.9	
90	1,3-Dichlorobenzene	146	15.566	15.572	(0.992)	571718	50.0000	47.1	
* 91	1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	719153	50.0000		
92	1,4-Dichlorobenzene	146	15.709	15.708	(1.001)	631372	50.0000	47.0	
93	N-Butylbenzene	91	16.138	16.137	(1.029)	1500856	50.0000	50.9	
94	sec-Butylbenzene	105	15.230	15.229	(0.971)	1556814	50.0000	49.3	
95	1,2-Dichlorobenzene	146	16.389	16.387	(1.045)	537202	50.0000	48.1	
96	1,2-Dibromo-3-Chloropropane	75	17.747	17.745	(1.131)	63024	50.0000	43.6	
97	1,3,5-Trichlorobenzene	180	17.797	17.803	(1.134)	382562	50.0000	43.2	
98	Hexachlorobutadiene	225	18.905	18.904	(1.205)	184450	50.0000	46.4	
99	1,2,4-Trichlorobenzene	180	18.941	18.947	(1.207)	307176	50.0000	43.1	
100	1,2,3-Trimethylbenzene	105	15.752	15.750	(1.004)	1160046	50.0000	44.8	
101	Naphthalene	128	19.535	19.533	(1.245)	569194	50.0000	35.4	
102	1,2,3-Trichlorobenzene	180	19.871	19.869	(1.267)	183995	50.0000	32.2	
103	Methyl Acetate	43	5.134	5.133	(0.628)	248796	50.0000	42.0	
104	Methylcyclohexane	83	8.767	8.772	(1.072)	455994	50.0000	44.4	



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Date : 22-NOV-2013 08:17
Client ID: ontinuing Calibrati
Sample Info: WG134916-4,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS

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Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 **SDG:** WE40-1
Lab ID : WG134993-4 **Analytical Date:** 11/23/13 08:15
Lab File ID : C4444.D **Instrument ID:** GCMS-C
Initial Calibration Date(s): 11/13/13 10:01 11/13/13 12:38 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
19 Methyl tert-butyl ether	1.03548	0.92741	0.92741	0.010	-10.43663	20.00000	Averaged	
41 Benzene	0.92118	0.91974	0.91974	0.010	-0.15602	20.00000	Averaged	
57 Toluene	0.57301	0.55342	0.55342	0.010	-3.41838	20.00000	Averaged	
68 Ethylbenzene	0.34948	0.33171	0.33171	0.010	-5.08562	20.00000	Averaged	
70 Xylenes (total)	++++	0.38782	0.38782	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.40593	0.39181	0.39181	0.010	-3.47880	20.00000	Averaged	
72 o-Xylene	0.38136	0.37982	0.37982	0.010	-0.40214	20.00000	Averaged	
37 Dibromofluoromethane	0.38135	0.31332	0.31332	0.010	-17.83910	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.41325	0.33716	0.33716	0.010	-18.41325	20.00000	Averaged	
55 Toluene-D8	0.73051	0.64263	0.64263	0.010	-12.02973	20.00000	Averaged	
76 P-Bromofluorobenzene	0.34118	0.29760	0.29760	0.010	-12.77191	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4444.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4444.D
Lab Smp Id: WG134993-4 Client Smp ID: ontinuing Calibrati
Inj Date : 23-NOV-2013 08:15
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134993-4,WE40-1
Misc Info : WG134993,WG134365-4,SG9044-1
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.050	2.051	(0.251)	428897	50.0000	42.3	
2	Chloromethane	50	2.301	2.301	(0.281)	535280	50.0000	39.2	
3	Vinyl chloride	62	2.401	2.401	(0.294)	428406	50.0000	42.2	
4	Bromomethane	94	2.816	2.816	(0.344)	214842	50.0000	40.4	
5	Chloroethane	64	2.973	2.980	(0.364)	113669	50.0000	22.1	
6	Trichlorofluoromethane	101	3.159	3.166	(0.386)	477868	50.0000	45.2	
7	Diethyl Ether	59	3.602	3.602	(0.440)	221116	50.0000	35.7	
8	Tertiary-butyl alcohol	59	5.504	5.490	(0.673)	124631	250.000	182	
9	1,1-Dichloroethene	96	3.881	3.881	(0.475)	266863	50.0000	50.2	
10	Carbon Disulfide	76	3.909	3.917	(0.478)	1034597	50.0000	50.4	
11	Freon-113	151	3.945	3.946	(0.482)	123627	50.0000	36.8	
12	Iodomethane	142	4.088	4.089	(0.500)	348824	50.0000	68.0	
13	Acrolein	56	4.410	4.410	(0.539)	211225	250.000	166	
14	Methylene Chloride	84	4.810	4.811	(0.588)	386501	50.0000	45.7	
15	Acetone	43	4.903	4.904	(0.600)	608683	250.000	235	
16	Isobutyl Alcohol	43	8.378	8.379	(1.024)	232928	1000.00	805	
17	trans-1,2-Dichloroethene	96	5.089	5.090	(0.622)	344641	50.0000	49.3	
18	Allyl Chloride	41	4.624	4.632	(0.565)	467476	50.0000	35.4	
19	Methyl tert-butyl ether	73	5.289	5.290	(0.647)	1641363	100.000	89.6	
20	Acetonitrile	39	5.704	5.697	(0.698)	93812	500.000	370	
21	Di-isopropyl ether	45	5.933	5.940	(0.725)	1004379	50.0000	38.2	
22	Chloroprene	53	6.069	6.069	(0.742)	393689	50.0000	36.1	
23	Propionitrile	54	8.099	8.106	(0.990)	452130	500.000	374	
24	Methacrylonitrile	41	8.128	8.128	(0.994)	1868114	500.000	341	

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4444.D
Report Date: 02-Dec-2013 12:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.105	6.105	(0.746)	632445	50.0000	45.9	
	26 Acrylonitrile	52	6.198	6.198	(0.758)	486357	250.000	185	
	27 Ethyl tertiary-butyl ether	59	6.498	6.498	(0.795)	821030	50.0000	39.3	
	28 Vinyl Acetate	43	6.519	6.520	(0.738)	691933	50.0000	47.4	
	29 cis-1,2-Dichloroethene	96	6.905	6.913	(0.844)	367465	50.0000	46.8	
	31 Methyl Methacrylate	41	9.694	9.694	(1.097)	263872	50.0000	40.3	
	32 2,2-Dichloropropane	77	7.056	7.056	(0.863)	503043	50.0000	48.8	
	33 Bromochloromethane	128	7.184	7.185	(0.878)	145243	50.0000	46.4	
	34 Chloroform	83	7.299	7.299	(0.892)	652716	50.0000	47.4	
	35 Carbon Tetrachloride	117	7.463	7.463	(0.845)	452364	50.0000	52.8	
	36 Tetrahydrofuran	42	7.499	7.506	(0.917)	540049	250.000	222	
$	37 Dibromofluoromethane	113	7.542	7.549	(0.922)	277264	50.0000	41.1	
	38 1,1,1-Trichloroethane	97	7.556	7.564	(0.924)	550603	50.0000	47.4	
	39 1,1-Dichloropropene	75	11.002	11.003	(1.245)	519198	50.0000	50.2	
	40 2-Butanone	43	7.721	7.721	(0.944)	910802	250.000	243	
	41 Benzene	78	8.049	8.057	(0.911)	1393494	50.0000	49.9	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	884913	50.0000		
	43 Cyclohexane	56	7.170	7.170	(0.877)	601400	50.0000	49.3	
	44 Ethyl Methacrylate	69	11.188	11.189	(1.266)	387592	50.0000	43.0	
$	45 1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	298357	50.0000	40.8	
	46 Tertiary-amyl methyl ether	73	8.214	8.214	(1.004)	700584	50.0000	38.8	
	47 1,2-Dichloroethane	62	8.314	8.314	(0.941)	422767	50.0000	49.6	
	48 Trichloroethene	95	8.786	8.786	(0.994)	331726	50.0000	49.6	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1515094	50.0000		
	50 Dibromomethane	93	9.301	9.301	(1.053)	218055	50.0000	47.1	
	51 1,2-Dichloropropane	63	9.422	9.423	(1.066)	357067	50.0000	49.6	
	52 Bromodichloromethane	83	9.501	9.501	(1.075)	496292	50.0000	49.5	
	53 cis-1,3-dichloropropene	75	10.237	10.245	(1.159)	618124	50.0000	50.1	
	54 1,4-Dioxane	88	9.744	9.737	(1.103)	72118	1000.00	665	
$	55 Toluene-D8	98	10.452	10.452	(1.183)	973645	50.0000	44.0	
	56 2-Chloroethylvinylether	63	10.173	10.181	(1.151)	136251	50.0000	46.5	
	57 Toluene	92	10.509	10.509	(1.189)	838484	50.0000	48.3	
	58 4-methyl-2-pentanone	43	10.960	10.960	(1.240)	1626569	250.000	242	
	59 Tetrachloroethene	164	10.960	10.960	(0.888)	252218	50.0000	50.3	
	60 trans-1,3-Dichloropropene	75	11.002	11.003	(1.245)	519198	50.0000	50.2	
	61 1,1,2-Trichloroethane	83	11.195	11.196	(1.267)	275814	50.0000	48.8	
	62 Dibromochloromethane	129	11.403	11.410	(0.924)	344080	50.0000	49.2	
	63 1,3-Dichloropropane	76	11.524	11.525	(0.934)	584872	50.0000	47.3	
	64 1,2-Dibromoethane	107	11.696	11.696	(1.324)	325340	50.0000	48.2	
	65 2-Hexanone	43	11.975	11.975	(0.970)	1250879	250.000	246	
*	66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1477294	50.0000		
	67 Chlorobenzene	112	12.361	12.361	(1.002)	814100	50.0000	47.0	
	152 1-Chlorohexane	91	12.325	12.326	(0.999)	536950	50.0000	44.1	
	68 Ethylbenzene	106	12.390	12.390	(1.004)	490027	50.0000	47.4	
	69 1,1,1,2-Tetrachloroethane	131	12.440	12.440	(1.008)	318753	50.0000	48.0	
	71 m+p-Xylenes	106	12.583	12.583	(1.020)	1157645	100.000	96.5	
	72 o-Xylene	106	13.155	13.155	(1.066)	561113	50.0000	49.8	
	73 Styrene	104	13.226	13.226	(1.072)	1016224	50.0000	49.6	
	74 Bromoform	173	13.269	13.269	(1.075)	222367	50.0000	48.5	
	75 Isopropylbenzene	105	13.591	13.591	(0.866)	1484179	50.0000	44.8	
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	450894	50.0000	43.6	
	77 cis-1,4-Dichloro-2-Butene	53	14.091	14.092	(0.898)	119916	50.0000	37.1	
	78 trans-1,4-Dichloro-2-Butene	53	14.556	14.556	(0.928)	108201	50.0000	37.2	
	79 Bromobenzene	156	14.148	14.149	(0.902)	363676	50.0000	45.3	

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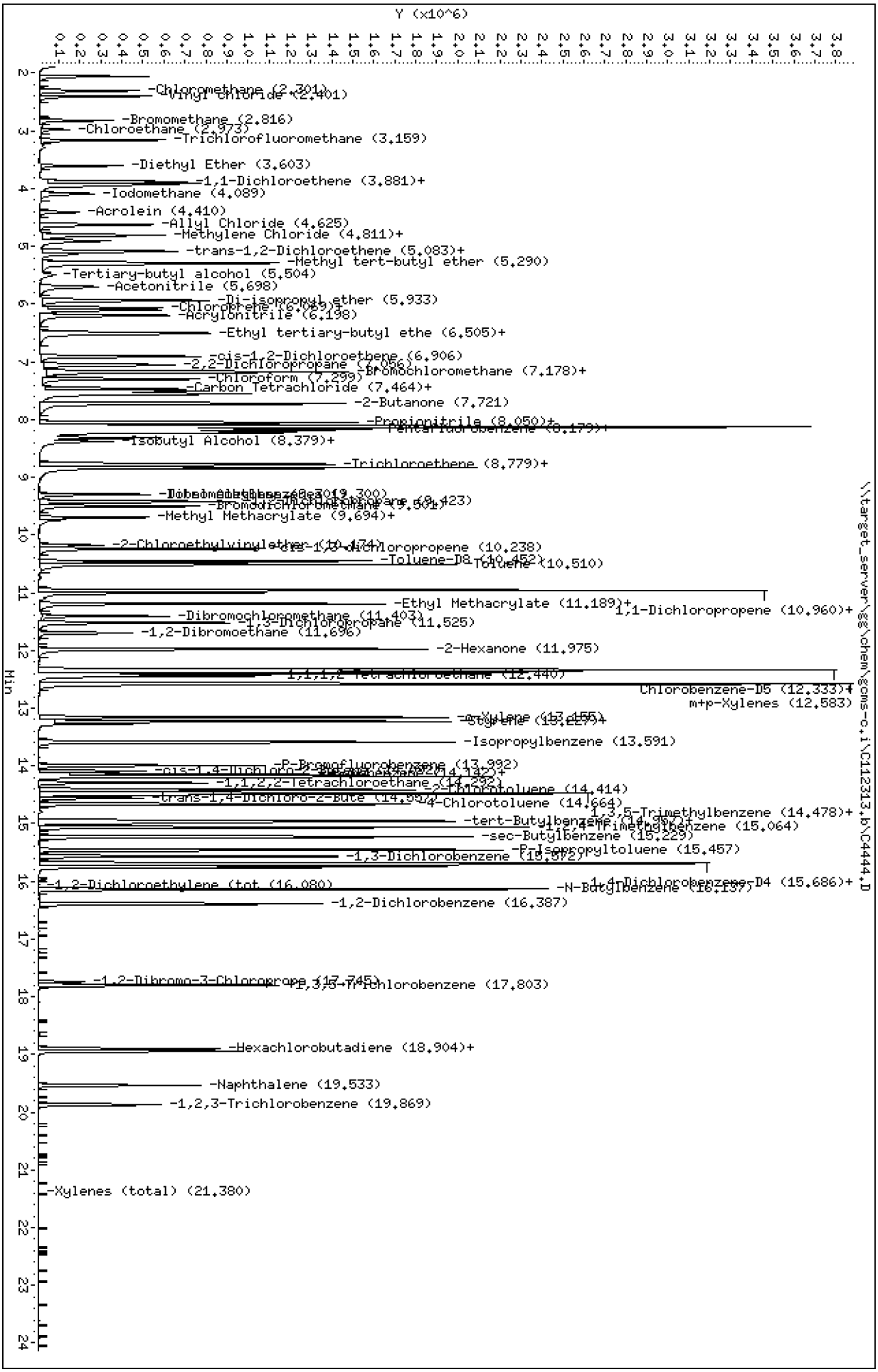
Report Date: 02-Dec-2013 12:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.184	14.185	(0.904)	1896493	50.0000	44.0	
81	1,1,2,2-Tetrachloroethane	83	14.291	14.292	(0.911)	463063	50.0000	42.0	
82	1,3,5-Trimethylbenzene	105	14.477	14.478	(0.923)	1407746	50.0000	45.2	
83	2-Chlorotoluene	91	14.413	14.413	(0.919)	1184027	50.0000	44.9	
84	1,2,3-Trichloropropane	75	14.492	14.492	(0.924)	360863	50.0000	41.1	
85	4-Chlorotoluene	91	14.663	14.664	(0.935)	1221673	50.0000	44.3	
86	tert-Butylbenzene	119	14.956	14.957	(0.954)	1238822	50.0000	43.0	
87	Pentachloroethane	117	14.985	14.985	(0.955)	260841	50.0000	38.2	
88	1,2,4-Trimethylbenzene	105	15.064	15.064	(0.960)	1407162	50.0000	45.7	
89	P-Isopropyltoluene	119	15.457	15.457	(0.985)	1382873	50.0000	45.6	
90	1,3-Dichlorobenzene	146	15.571	15.572	(0.993)	640124	50.0000	43.9	
* 91	1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	865137	50.0000		
92	1,4-Dichlorobenzene	146	15.714	15.708	(1.002)	702936	50.0000	43.5	
93	N-Butylbenzene	91	16.136	16.137	(1.029)	1569850	50.0000	44.2	
94	sec-Butylbenzene	105	15.228	15.229	(0.971)	1669892	50.0000	44.0	
95	1,2-Dichlorobenzene	146	16.386	16.387	(1.045)	595403	50.0000	44.4	
96	1,2-Dibromo-3-Chloropropane	75	17.745	17.745	(1.131)	65593	50.0000	37.8	
97	1,3,5-Trichlorobenzene	180	17.802	17.803	(1.135)	401389	50.0000	37.6	
98	Hexachlorobutadiene	225	18.903	18.904	(1.205)	189256	50.0000	39.6	
99	1,2,4-Trichlorobenzene	180	18.946	18.947	(1.208)	327484	50.0000	38.2	
100	1,2,3-Trimethylbenzene	105	15.750	15.750	(1.004)	1201272	50.0000	38.6	
101	Naphthalene	128	19.533	19.533	(1.245)	665977	50.0000	34.4	
102	1,2,3-Trichlorobenzene	180	19.869	19.869	(1.267)	198922	50.0000	28.8	
103	Methyl Acetate	43	5.139	5.133	(0.628)	267148	50.0000	37.2	
104	Methylcyclohexane	83	8.764	8.772	(1.072)	451373	50.0000	36.3	



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Client ID: ontinuing Calibrati
Sample Info: WG134993-4,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS

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Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 **SDG:** WE40-1
Lab ID : WG135258-4 **Analytical Date:** 11/27/13 09:16
Lab File ID : D6916.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 11/19/13 10:08 11/19/13 12:52 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
19 Methyl tert-butyl ether	1.47557	1.78411	1.78411	0.010	20.90925	20.00000	Averaged	*
41 Benzene	1.38431	1.55131	1.55131	0.010	12.06394	20.00000	Averaged	
57 Toluene	50.00000	52.40450	0.95935	0.010	4.80899	20.00000	Linear	
68 Ethylbenzene	0.53579	0.57244	0.57244	0.010	6.84055	20.00000	Averaged	
70 Xylenes (total)	++++	0.71466	0.71466	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	100	107	0.71574	0.010	7.26582	20.00000	Linear	
72 o-Xylene	50.00000	53.06134	0.71248	0.010	6.12267	20.00000	Linear	
37 Dibromofluoromethane	0.50769	0.46216	0.46216	0.010	-8.96895	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.70683	0.59222	0.59222	0.010	-16.21464	20.00000	Averaged	
55 Toluene-D8	1.14920	1.12864	1.12864	0.010	-1.78912	20.00000	Averaged	
76 P-Bromofluorobenzene	0.46698	0.47726	0.47726	0.010	2.20235	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6916.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6916.D
Lab Smp Id: WG135258-4 Client Smp ID: ontinuing Calibrati
Inj Date : 27-NOV-2013 09:16
Operator : REC Inst ID: gcms-d.i
Smp Info : WG135258-4,WE40-1
Misc Info : WG135258,WG134694-4,SG9180-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.072	2.073	(0.257)	556623	50.0000	54.6	
2	Chloromethane	50	2.308	2.303	(0.287)	694890	50.0000	51.6	
3	Vinyl chloride	62	2.408	2.403	(0.299)	627211	50.0000	57.8	
4	Bromomethane	94	2.801	2.804	(0.348)	248660	50.0000	49.3	
5	Chloroethane	64	2.966	2.961	(0.368)	345182	50.0000	57.7	
6	Trichlorofluoromethane	101	3.145	3.140	(0.391)	696947	50.0000	52.5	
7	Diethyl Ether	59	3.552	3.547	(0.441)	368637	50.0000	56.3	
8	Tertiary-butyl alcohol	59	5.347	5.342	(0.664)	189025	250.000	274	
9	1,1-Dichloroethene	96	3.824	3.819	(0.475)	381628	50.0000	64.9	
10	Carbon Disulfide	76	3.860	3.862	(0.480)	1447425	50.0000	48.5	
11	Freon-113	151	3.888	3.890	(0.483)	230319	50.0000	51.4	
12	Iodomethane	142	4.017	4.019	(0.499)	333932	50.0000	53.8	
13	Acrolein	56	4.303	4.304	(0.535)	425521	250.000	312	
14	Methylene Chloride	84	4.696	4.691	(0.583)	528045	50.0000	53.1	
15	Acetone	43	4.775	4.770	(0.593)	941115	250.000	327	
16	Isobutyl Alcohol	43	8.243	8.238	(1.024)	387013	1000.00	1140	
17	trans-1,2-Dichloroethene	96	4.975	4.970	(0.618)	438843	50.0000	58.6	
18	Allyl Chloride	41	4.532	4.527	(0.563)	654696	50.0000	63.2	
19	Methyl tert-butyl ether	73	5.175	5.170	(0.643)	2729879	100.000	121	
20	Acetonitrile	39	5.533	5.535	(0.687)	153863	500.000	715	
21	Di-isopropyl ether	45	5.819	5.821	(0.723)	1495286	50.0000	60.4	
22	Chloroprene	53	5.947	5.942	(0.739)	599729	50.0000	59.7	
23	Propionitrile	54	7.950	7.945	(0.988)	876919	500.000	683	
24	Methacrylonitrile	41	7.978	7.980	(0.991)	3313224	500.000	576	

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6916.D
Report Date: 02-Dec-2013 12:21

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.976	5.971	(0.742)	846349	50.0000	58.6	
	26 Acrylonitrile	52	6.040	6.035	(0.750)	907933	250.000	316	
	27 Ethyl tertiary-butyl ether	59	6.384	6.379	(0.793)	1344858	50.0000	59.3	
	28 Vinyl Acetate	43	6.384	6.386	(0.733)	994609	50.0000	50.2	
	29 cis-1,2-Dichloroethene	96	6.777	6.772	(0.842)	497006	50.0000	60.2	
M	30 1,2-Dichloroethylene (total)	96				935849	50.0000	(a)	
	31 Methyl Methacrylate	41	9.573	9.575	(1.098)	453863	50.0000	60.6	
	32 2,2-Dichloropropane	77	6.927	6.929	(0.861)	611876	50.0000	49.9	
	33 Bromochloromethane	128	7.049	7.051	(0.876)	214237	50.0000	57.9	
	34 Chloroform	83	7.170	7.165	(0.891)	814460	50.0000	56.2	
	35 Carbon Tetrachloride	117	7.349	7.351	(0.843)	540549	50.0000	48.2	
	36 Tetrahydrofuran	42	7.370	7.373	(0.916)	876192	250.000	289	
$	37 Dibromofluoromethane	113	7.413	7.408	(0.921)	353574	50.0000	45.5	
	38 1,1,1-Trichloroethane	97	7.442	7.437	(0.925)	685179	50.0000	51.2	
	39 1,1-Dichloropropene	75	7.606	7.608	(0.873)	623842	50.0000	52.0	
	40 2-Butanone	43	7.578	7.573	(0.941)	1438195	250.000	293	
	41 Benzene	78	7.928	7.923	(0.910)	1882623	50.0000	56.0	
*	42 Pentafluorobenzene	168	8.050	8.052	(1.000)	765055	50.0000		
	43 Cyclohexane	56	7.063	7.065	(0.877)	716807	50.0000	55.6	
	44 Ethyl Methacrylate	69	11.074	11.069	(1.271)	676941	50.0000	62.7	
$	45 1,2-Dichloroethane-D4	65	8.093	8.095	(1.005)	453084	50.0000	41.9	
	46 Tertiary-amyl methyl ether	73	8.100	8.102	(1.006)	1218210	50.0000	58.8	
	47 1,2-Dichloroethane	62	8.178	8.180	(0.938)	657761	50.0000	51.3	
	48 Trichloroethene	95	8.672	8.667	(0.995)	433990	50.0000	53.9	
*	49 1,4-Difluorobenzene	114	8.715	8.710	(1.000)	1213568	50.0000		
	50 Dibromomethane	93	9.172	9.167	(1.053)	307621	50.0000	53.6	
	51 1,2-Dichloropropane	63	9.294	9.289	(1.066)	473361	50.0000	56.3	
	52 Bromodichloromethane	83	9.372	9.375	(1.075)	647898	50.0000	50.4	
	53 cis-1,3-dichloropropene	75	10.116	10.118	(1.161)	827711	50.0000	51.5	
	54 1,4-Dioxane	88	9.615	9.618	(1.103)	96929	1000.00	398	
$	55 Toluene-D8	98	10.338	10.333	(1.186)	1369678	50.0000	49.1	
	56 2-Chloroethylvinylether	63	10.395	10.390	(1.193)	149154	50.0000	46.6	
	57 Toluene	92	10.395	10.390	(1.193)	1164236	50.0000	52.4	
	58 4-methyl-2-pentanone	43	10.831	10.826	(1.243)	2632112	250.000	239	
	59 Tetrachloroethene	164	10.845	10.840	(0.889)	362619	50.0000	52.5	
	60 trans-1,3-Dichloropropene	75	10.874	10.876	(1.248)	716578	50.0000	49.8	
	61 1,1,2-Trichloroethane	83	11.060	11.062	(1.269)	379495	50.0000	54.4	
	62 Dibromochloromethane	129	11.274	11.277	(0.924)	472013	50.0000	53.7	
	63 1,3-Dichloropropane	76	11.389	11.384	(0.933)	821893	50.0000	53.5	
	64 1,2-Dibromoethane	107	11.560	11.555	(1.327)	460900	50.0000	55.4	
	65 2-Hexanone	43	11.839	11.841	(0.970)	1934512	250.000	228	
*	66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1147659	50.0000		
	67 Chlorobenzene	112	12.225	12.220	(1.002)	1239668	50.0000	56.0	
	152 1-Chlorohexane	91	12.204	12.199	(1.000)	574490	50.0000	49.8	
	68 Ethylbenzene	106	12.261	12.263	(1.005)	656963	50.0000	53.4	
	69 1,1,1,2-Tetrachloroethane	131	12.304	12.306	(1.008)	424055	50.0000	52.0	
M	70 Xylenes (total)	106				2460549	150.000	(a)	
	71 m+p-Xylenes	106	12.454	12.449	(1.021)	1642861	100.000	107	
	72 o-Xylene	106	13.019	13.021	(1.067)	817688	50.0000	53.1	
	73 Styrene	104	13.090	13.093	(1.073)	1319968	50.0000	48.1	
	74 Bromoform	173	13.119	13.121	(1.075)	344646	50.0000	45.2	
	75 Isopropylbenzene	105	13.455	13.450	(0.867)	1986275	50.0000	50.5	
$	76 P-Bromofluorobenzene	95	13.841	13.843	(1.588)	579187	50.0000	51.1	
	77 cis-1,4-Dichloro-2-Butene	53	13.934	13.936	(0.898)	194261	50.0000	57.6	

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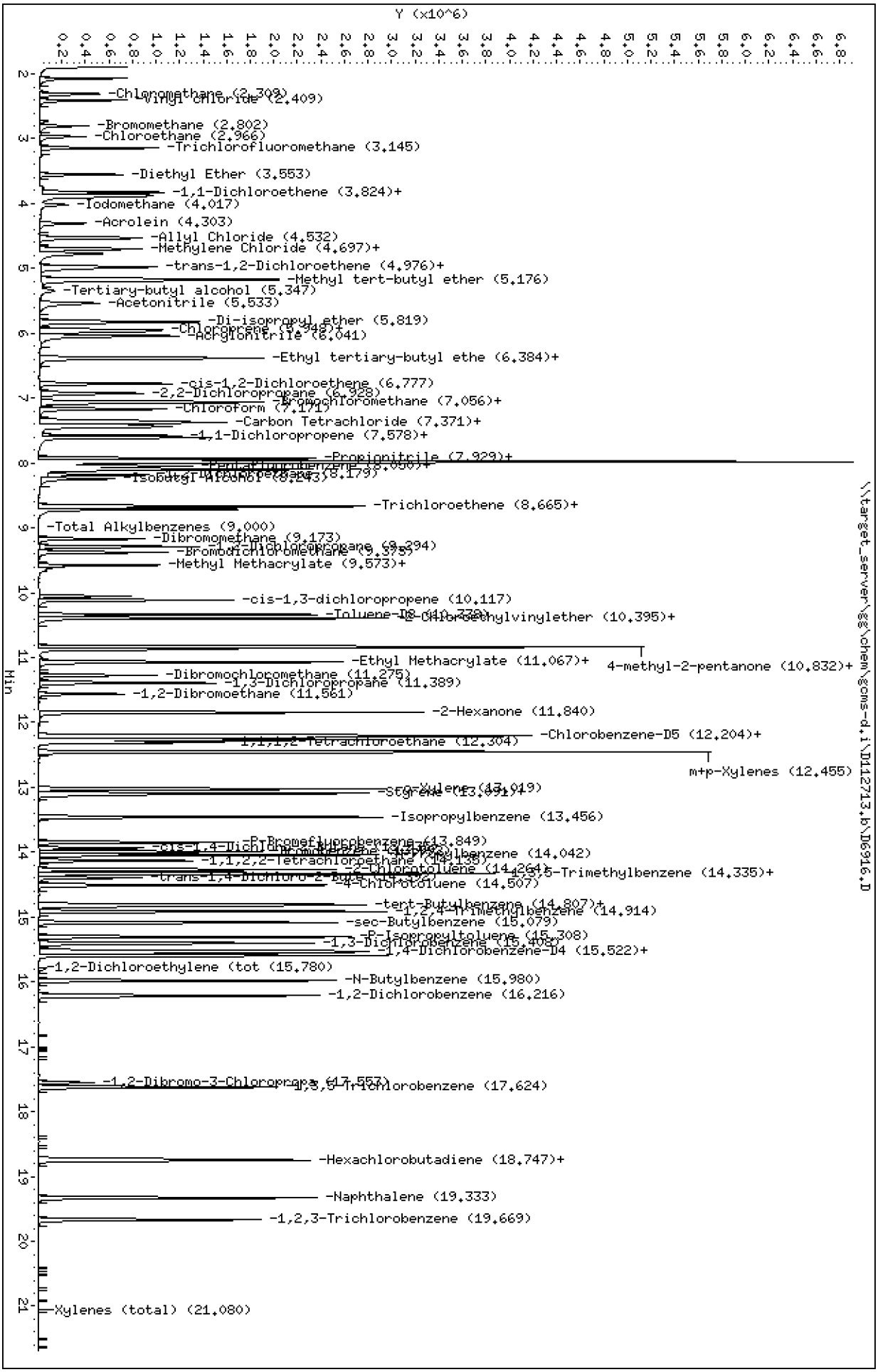
Report Date: 02-Dec-2013 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.392	14.394	(0.927)	187733	50.0000	56.2	
79	Bromobenzene	156	13.991	13.994	(0.901)	534171	50.0000	53.0	
80	N-Propylbenzene	91	14.041	14.044	(0.905)	2377761	50.0000	49.9	
81	1,1,2,2-Tetrachloroethane	83	14.134	14.129	(0.911)	660947	50.0000	50.1	
82	1,3,5-Trimethylbenzene	105	14.335	14.330	(0.924)	1672643	50.0000	44.3	
83	2-Chlorotoluene	91	14.263	14.265	(0.919)	1511500	50.0000	50.8	
84	1,2,3-Trichloropropane	75	14.327	14.330	(0.923)	538816	50.0000	50.0	
85	4-Chlorotoluene	91	14.513	14.508	(0.935)	1580460	50.0000	50.5	
86	tert-Butylbenzene	119	14.806	14.809	(0.954)	1575573	50.0000	54.0	
87	Pentachloroethane	117	14.828	14.830	(0.955)	341974	50.0000	51.2	
88	1,2,4-Trimethylbenzene	105	14.914	14.916	(0.961)	1734509	50.0000	43.2	
89	P-Isopropyltoluene	119	15.307	15.309	(0.986)	1636042	50.0000	45.9	
90	1,3-Dichlorobenzene	146	15.407	15.402	(0.993)	1022980	50.0000	57.0	
* 91	1,4-Dichlorobenzene-D4	152	15.522	15.517	(1.000)	734010	50.0000		
92	1,4-Dichlorobenzene	146	15.543	15.545	(1.001)	1000045	50.0000	47.5	
93	N-Butylbenzene	91	15.979	15.974	(1.029)	1498235	50.0000	41.9	
94	sec-Butylbenzene	105	15.078	15.080	(0.971)	2019387	50.0000	48.9	
95	1,2-Dichlorobenzene	146	16.215	16.210	(1.045)	1032194	50.0000	57.0	
96	1,2-Dibromo-3-Chloropropane	75	17.552	17.547	(1.131)	130948	50.0000	46.6	
97	1,3,5-Trichlorobenzene	180	17.624	17.619	(1.135)	740003	50.0000	48.6	
98	Hexachlorobutadiene	225	18.732	18.727	(1.207)	278478	50.0000	43.3	
99	1,2,4-Trichlorobenzene	180	18.753	18.748	(1.208)	713528	50.0000	51.4	
100	1,2,3-Trimethylbenzene	105	15.593	15.588	(1.005)	1820557	50.0000	51.6	
101	Naphthalene	128	19.333	19.328	(1.246)	2050913	50.0000	40.1	
102	1,2,3-Trichlorobenzene	180	19.669	19.664	(1.267)	695329	50.0000	50.2	
103	Methyl Acetate	43	5.004	4.999	(0.622)	490442	50.0000	62.3	
104	Methylcyclohexane	83	8.665	8.660	(1.076)	609758	50.0000	56.2	
M 153	Total Alkylbenzenes	100				12514150	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Sample Info: WG135258-4,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D112713.b\D6916.D
Y (x10^6)
Min
-Chloromethane (2.309)
-Vinyl Chloride (2.409)
-Bromomethane (2.802)
-Chloroethane (2.966)
-Trichlorofluoromethane (3.145)
-Diethyl Ether (3.553)
-1,1-Dichloroethene (3.824)+
-Iodomethane (4.017)
-Acrolein (4.303)
-Allyl Chloride (4.532)
-Methylene Chloride (4.697)+
-trans-1,2-Dichloroethene (4.976)+
-Methyl tert-butyl ether (5.176)
-Tertiary-butyl alcohol (5.347)
-Acetonitrile (5.533)
-Di-isopropyl ether (5.819)
-Chloroprene (5.948)+
-Acrylonitrile (6.041)
-Ethyl tertiary-butyl ethe (6.384)+
-cis-1,2-Dichloroethene (6.777)
-2,2-Dichloropropane (6.928)
-Bromochloromethane (7.056)+
-Chloroform (7.171)
-Carbon Tetrachloride (7.371)+
-1,1-Dichloropropene (7.578)+
-Propionitrile (7.929)+
-Isobutyl Alcohol (8.243)
-Trichloroethene (8.665)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.173)
-1,2-Dichloropropane (9.294)
-Bromodichloromethane (9.395)
-Methyl Methacrylate (9.573)+
-cis-1,3-dichloropropene (10.117)
-Toluene-D8 (10.238)
-2-Chloroethylvinylether (10.395)+
-Ethyl Methacrylate (11.067)+
4-methyl-2-pentanone (10.832)+
-Dibromochloromethane (11.275)
-1,3-Dichloropropane (11.389)
-1,2-Dibromoethane (11.561)
-2-Hexanone (11.840)
-Chlorobenzene-D5 (12.204)+
1,1,1,2-Tetrachloroethane (12.304)
m+p-Xylenes (12.455)
-Styrene (13.091)+
-Isopropylbenzene (13.456)
-Bromofluorobenzene (13.849)
-1,1,2,2-Tetrachloroethane (14.138)
-4-Chlorotoluene (14.507)
-tert-Butylbenzene (14.807)+
-1,2,4-Trimethylbenzene (14.914)
-sec-Butylbenzene (15.079)
-1,3-Dichlorobenzene (15.402)
-1,4-Dichlorobenzene-D4 (15.522)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.980)
-1,2-Dichlorobenzene (16.216)
-1,2,4-Trichlorobenzene (17.624)
-Hexachlorobutadiene (18.747)+
-Naphthalene (19.333)
-1,2,3-Trichlorobenzene (19.669)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\CB699.D

Date : 13-NOV-2013 09:33

Client ID:

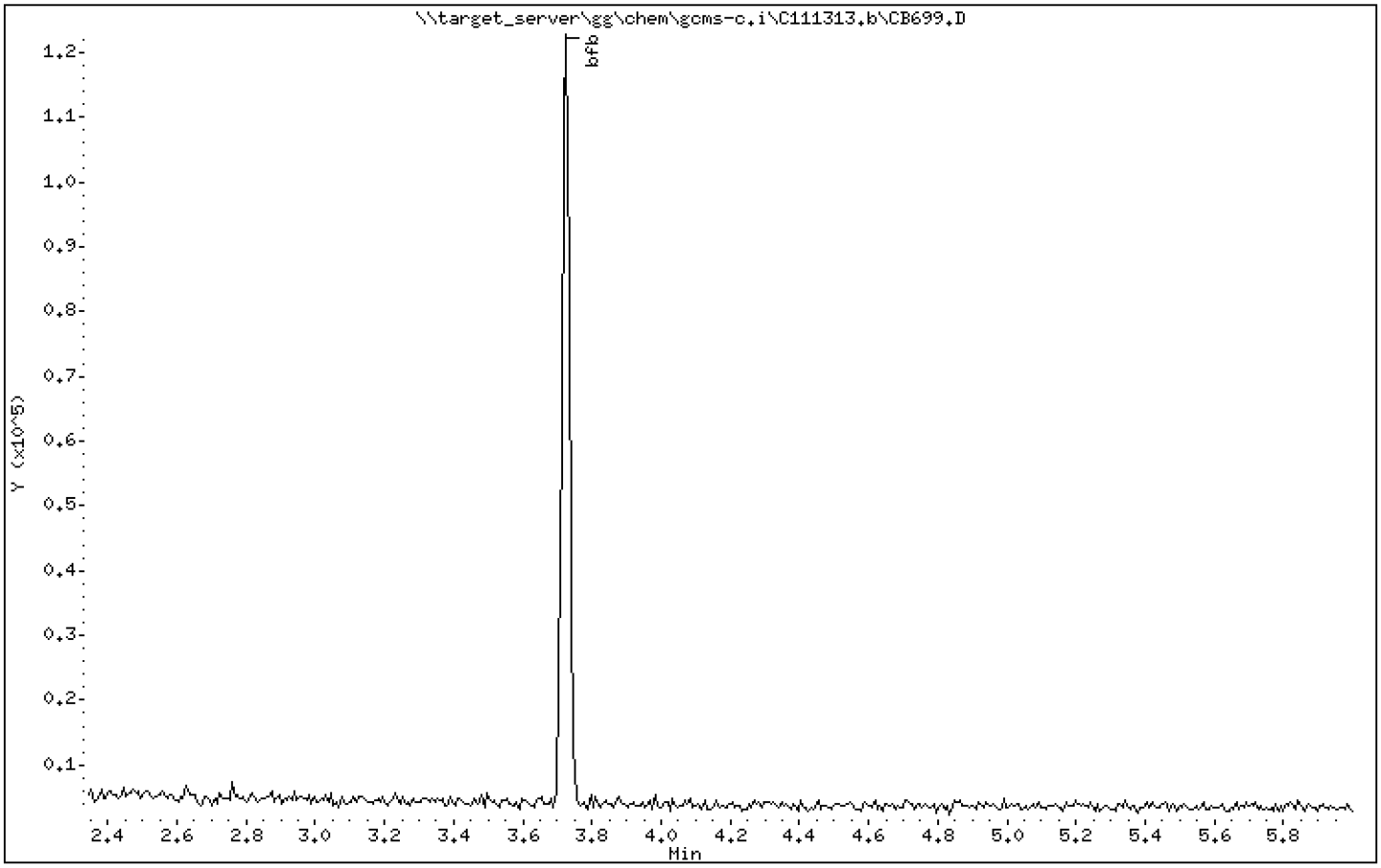
Instrument: gcms-c.i

Sample Info: WG134365-10,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C111313.b\CB699.D

Date : 13-NOV-2013 09:33

Client ID:

Instrument: gcms-c.i

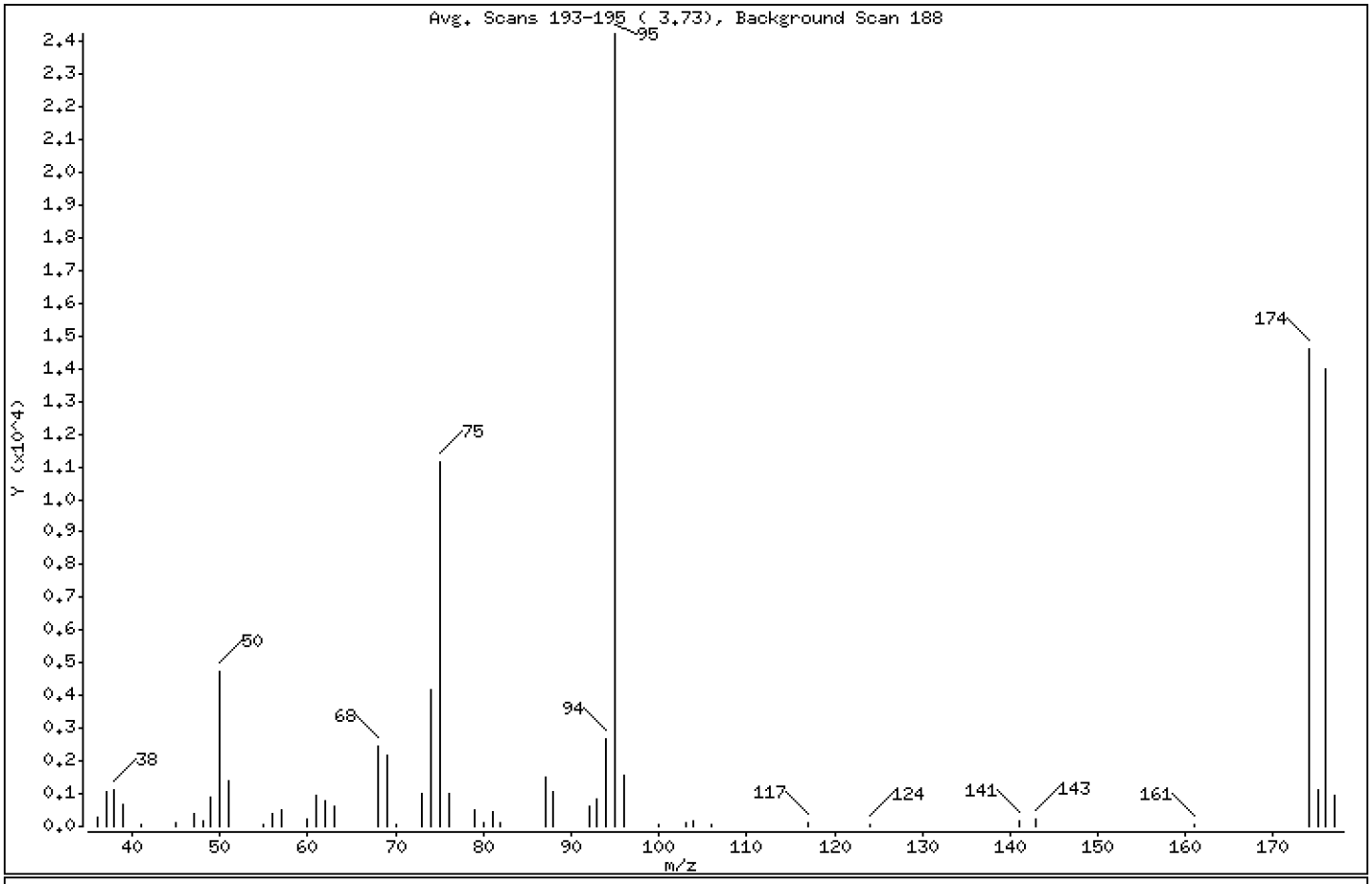
Sample Info: WG134365-10,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.49
75	30.00 - 60.00% of mass 95	45.91
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	60.12
175	5.00 - 9.00% of mass 174	4.59 (7.64)
176	95.00 - 101.00% of mass 174	57.65 (95.90)
177	5.00 - 9.00% of mass 176	3.80 (6.60)

Date : 13-NOV-2013 09:33

Client ID:

Instrument: gcms-c.i

Sample Info: WG134365-10,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB699.D
Spectrum: Avg. Scans 193-195 (3.73), Background Scan 188
Location of Maximum: 95.00
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	270	57.00	518	80.00	87	106.00	79
37.00	1082	60.00	248	81.00	428	117.00	91
38.00	1096	61.00	974	82.00	84	124.00	67
39.00	664	62.00	801	87.00	1520	141.00	156
41.00	67	63.00	635	88.00	1070	143.00	233
45.00	103	68.00	2464	92.00	616	161.00	81
47.00	409	69.00	2189	93.00	840	174.00	14572
48.00	162	70.00	70	94.00	2652	175.00	1113
49.00	878	73.00	1014	95.00	24240	176.00	13974
50.00	4724	74.00	4173	96.00	1565	177.00	922
51.00	1387	75.00	11129	100.00	71		
55.00	69	76.00	977	103.00	91		
56.00	401	79.00	479	104.00	162		

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\CB706.D

Date : 22-NOV-2013 07:51

Client ID:

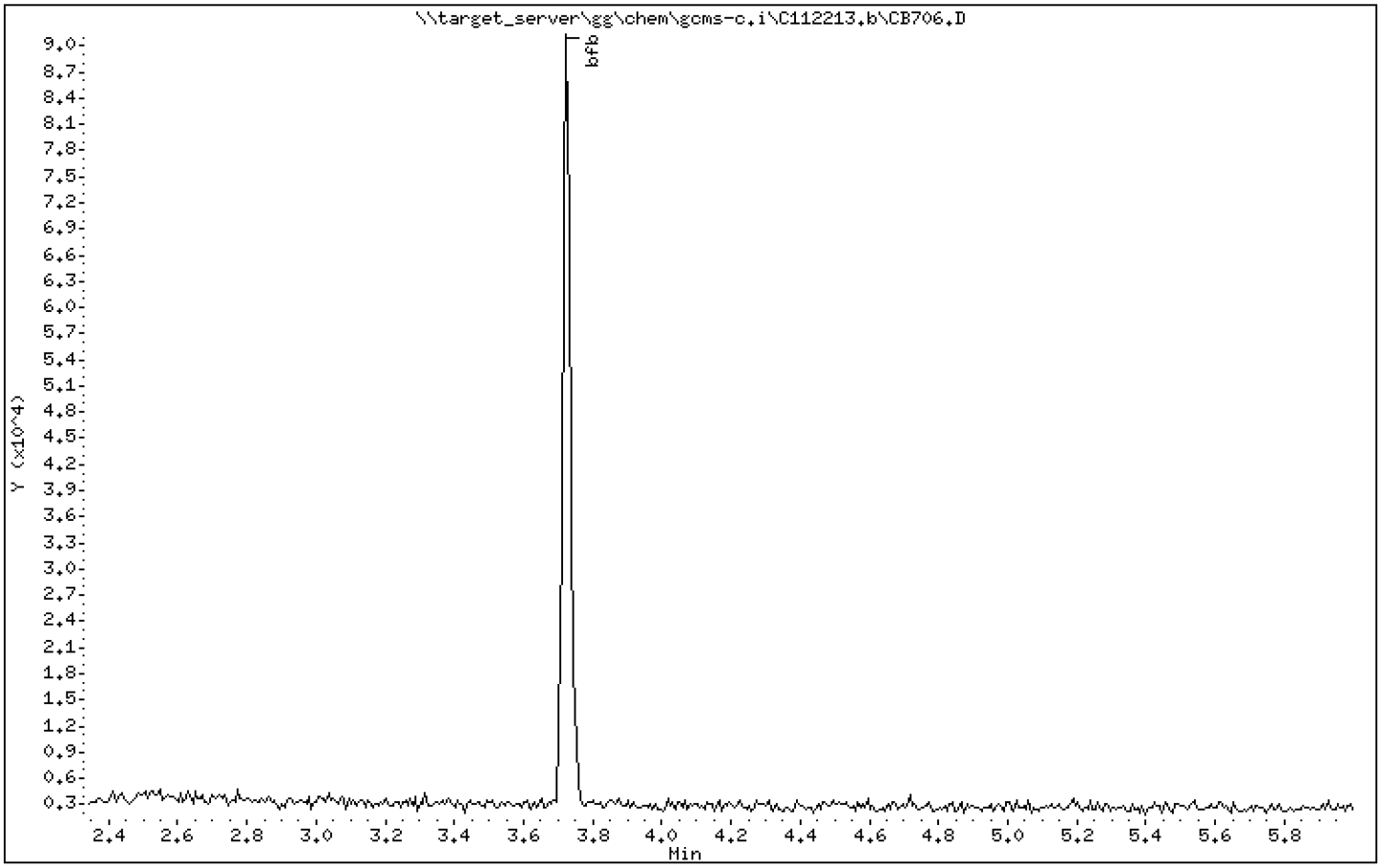
Instrument: gcms-c.i

Sample Info: WG134916-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\CB706.D

Date : 22-NOV-2013 07:51

Client ID:

Instrument: gcms-c.i

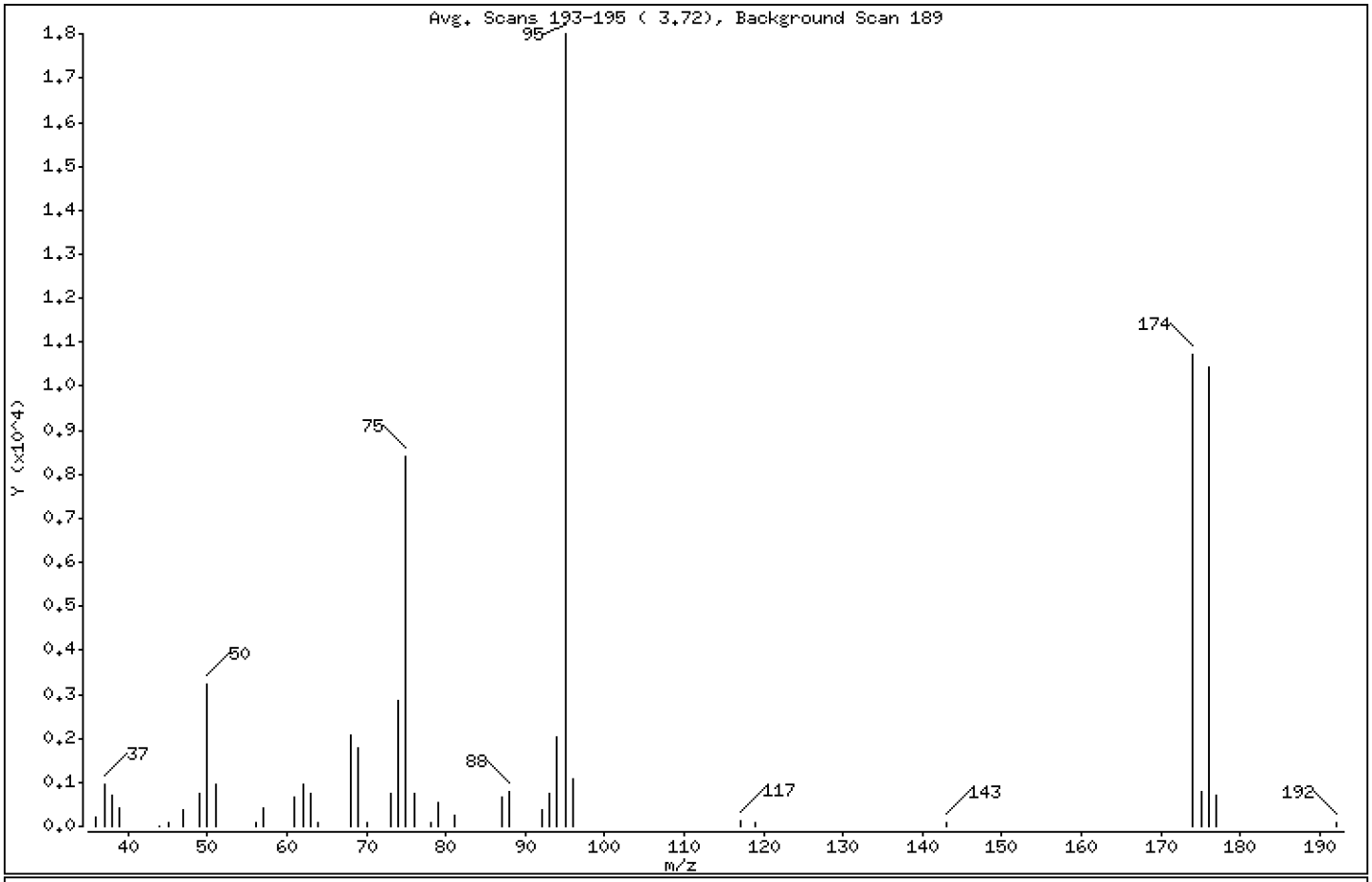
Sample Info: WG134916-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.85
75	30.00 - 60.00% of mass 95	46.66
96	5.00 - 9.00% of mass 95	6.05
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	59.65
175	5.00 - 9.00% of mass 174	4.43 (7.42)
176	95.00 - 101.00% of mass 174	57.84 (96.97)
177	5.00 - 9.00% of mass 176	3.95 (6.83)

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\CB706.D

Date : 22-NOV-2013 07:51

Client ID:

Instrument: gcms-c.i

Sample Info: WG134916-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB706.D
Spectrum: Avg. Scans 193-195 (3.72), Background Scan 189
Location of Maximum: 95.00
Number of points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	197	57.00	418	76.00	735	117.00	114
37.00	944	61.00	678	78.00	95	119.00	82
38.00	701	62.00	964	79.00	523	143.00	75
39.00	421	63.00	748	81.00	250	174.00	10742
44.00	4	64.00	92	87.00	664	175.00	797
45.00	95	68.00	2076	88.00	796	176.00	10416
47.00	371	69.00	1780	92.00	382	177.00	711
49.00	746	70.00	82	93.00	759	192.00	70
50.00	3215	73.00	745	94.00	2026		
51.00	957	74.00	2846	95.00	18008		
56.00	75	75.00	8402	96.00	1089		

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\CB707.D

Date : 23-NOV-2013 07:50

Client ID:

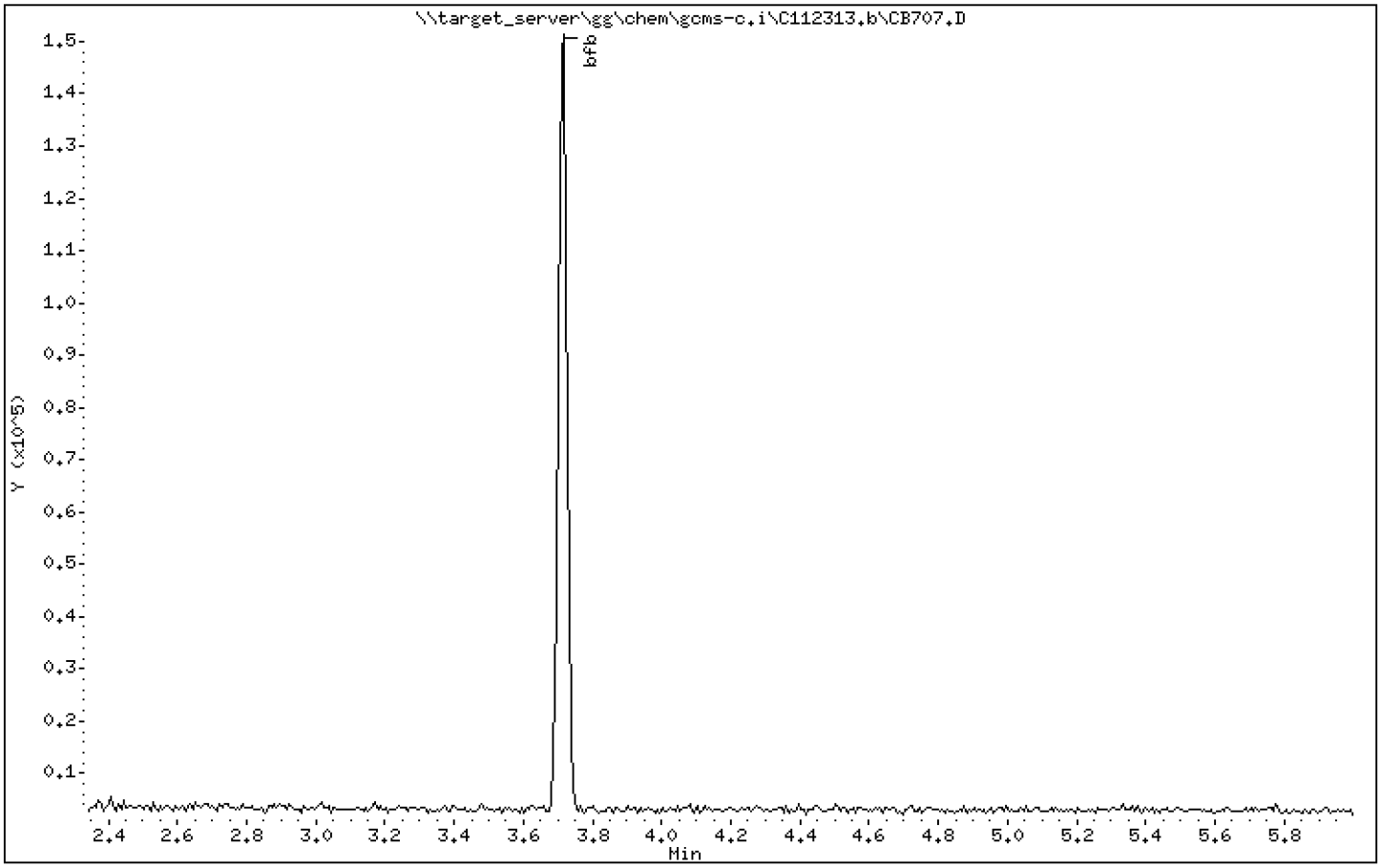
Instrument: gcms-c.i

Sample Info: WG134993-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\CB707.D

Date : 23-NOV-2013 07:50

Client ID:

Instrument: gcms-c.i

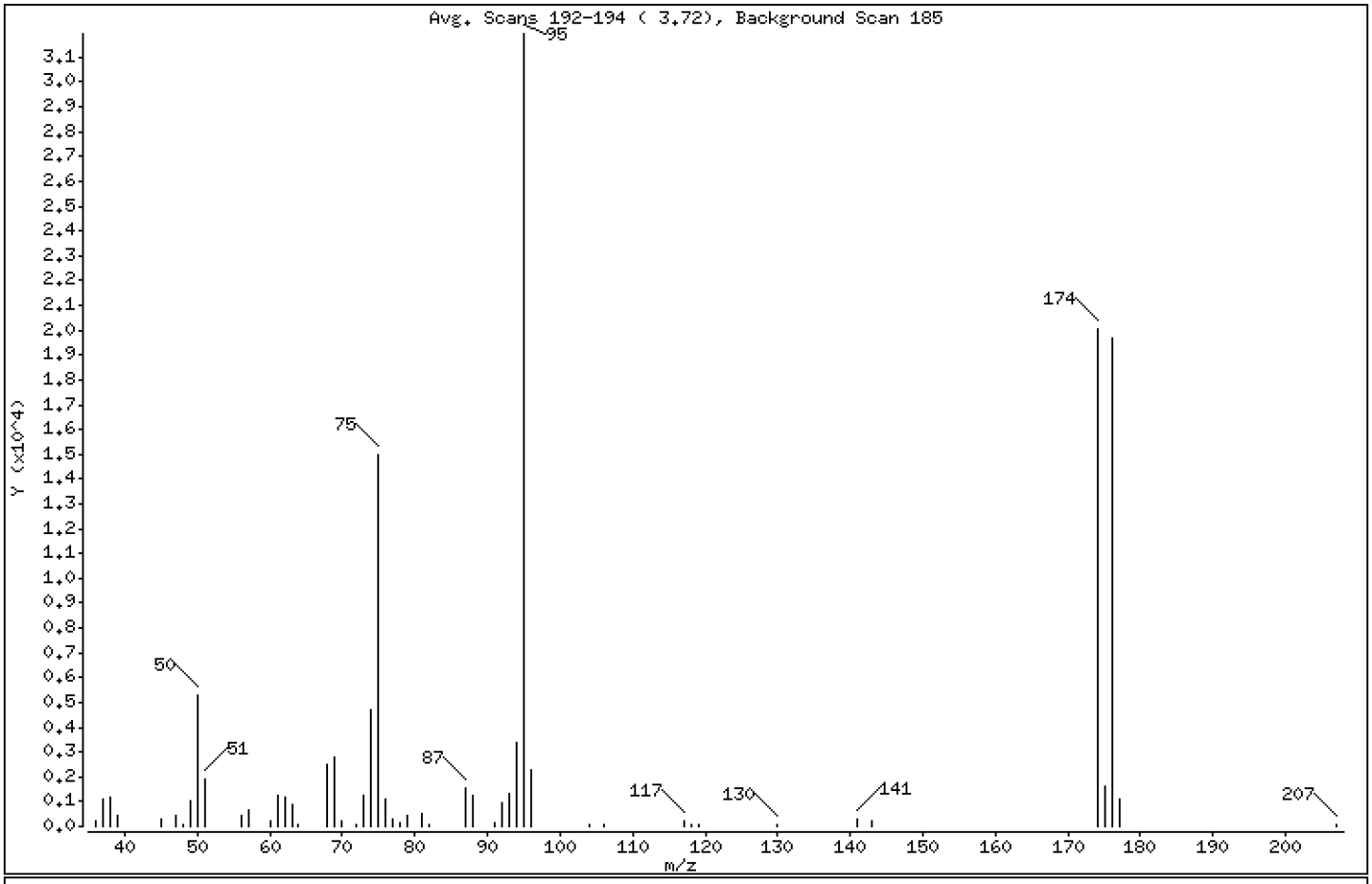
Sample Info: WG134993-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.52
75	30.00 - 60.00% of mass 95	46.83
96	5.00 - 9.00% of mass 95	7.12
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	62.81
175	5.00 - 9.00% of mass 174	5.01 (7.98)
176	95.00 - 101.00% of mass 174	61.66 (98.17)
177	5.00 - 9.00% of mass 176	3.46 (5.62)

Date : 23-NOV-2013 07:50

Client ID: Instrument: gcms-c.i

Sample Info: WG134993-3,WE40-1

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: CB707.D
Spectrum: Avg. Scans 192-194 (3.72), Background Scan 185
Location of Maximum: 95.00
Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	213	61.00	1226	78.00	121	106.00	99
37.00	1071	62.00	1208	79.00	457	117.00	257
38.00	1184	63.00	916	81.00	501	118.00	80
39.00	464	64.00	67	82.00	92	119.00	87
45.00	291	68.00	2520	87.00	1533	130.00	82
47.00	453	69.00	2763	88.00	1216	141.00	315
48.00	71	70.00	191	91.00	111	143.00	192
49.00	1030	72.00	85	92.00	964	174.00	20064
50.00	5276	73.00	1212	93.00	1315	175.00	1601
51.00	1925	74.00	4685	94.00	3365	176.00	19696
56.00	430	75.00	14960	95.00	31944	177.00	1106
57.00	686	76.00	1107	96.00	2276	207.00	76
60.00	257	77.00	322	104.00	70		

Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\DB246.D

Date : 19-NOV-2013 08:50

Client ID:

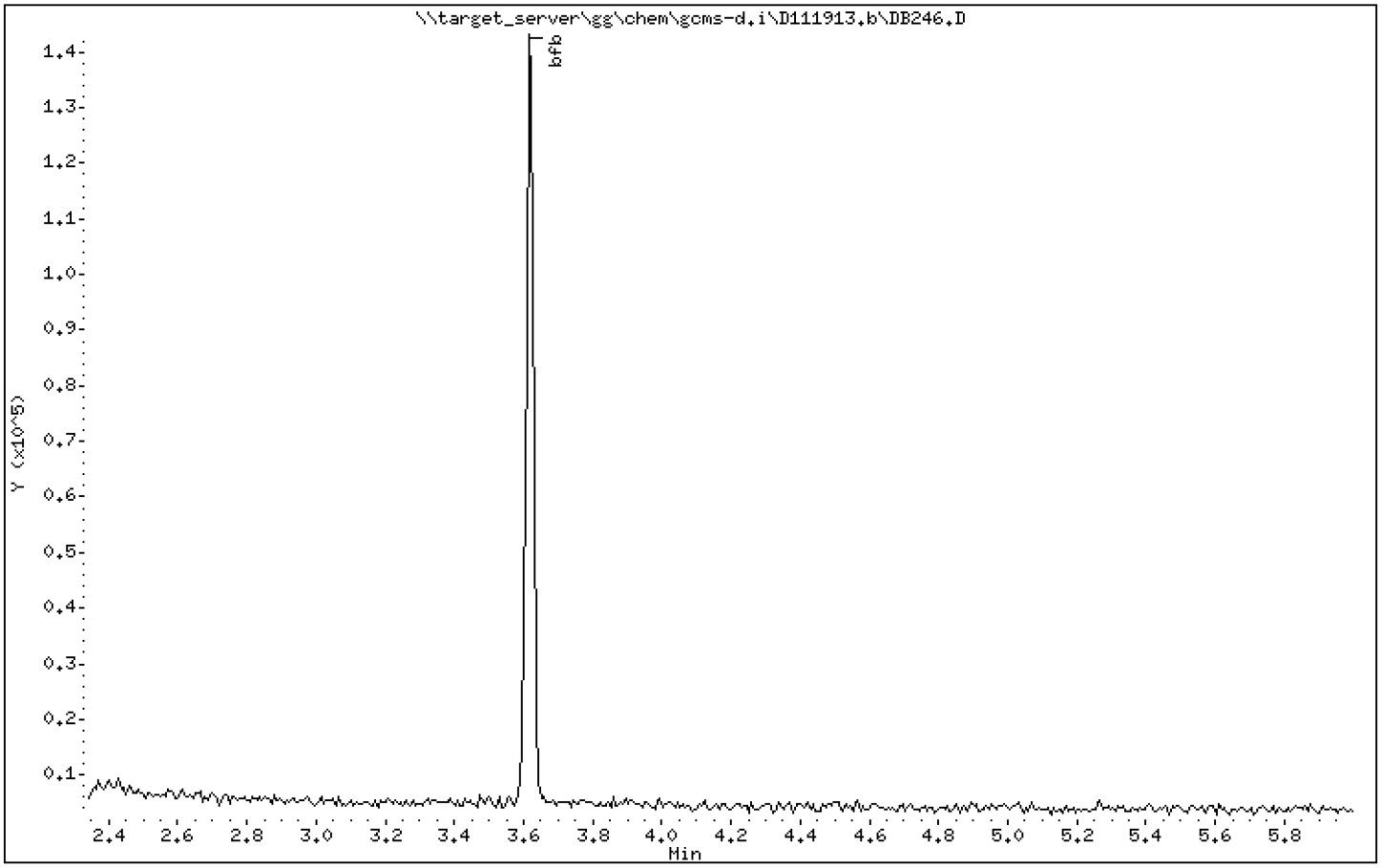
Instrument: gcms-d.i

Sample Info: WG134694-11,WE40-1

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-d.i\D111913.b\DB246.D

Date : 19-NOV-2013 08:50

Client ID:

Instrument: gcms-d.i

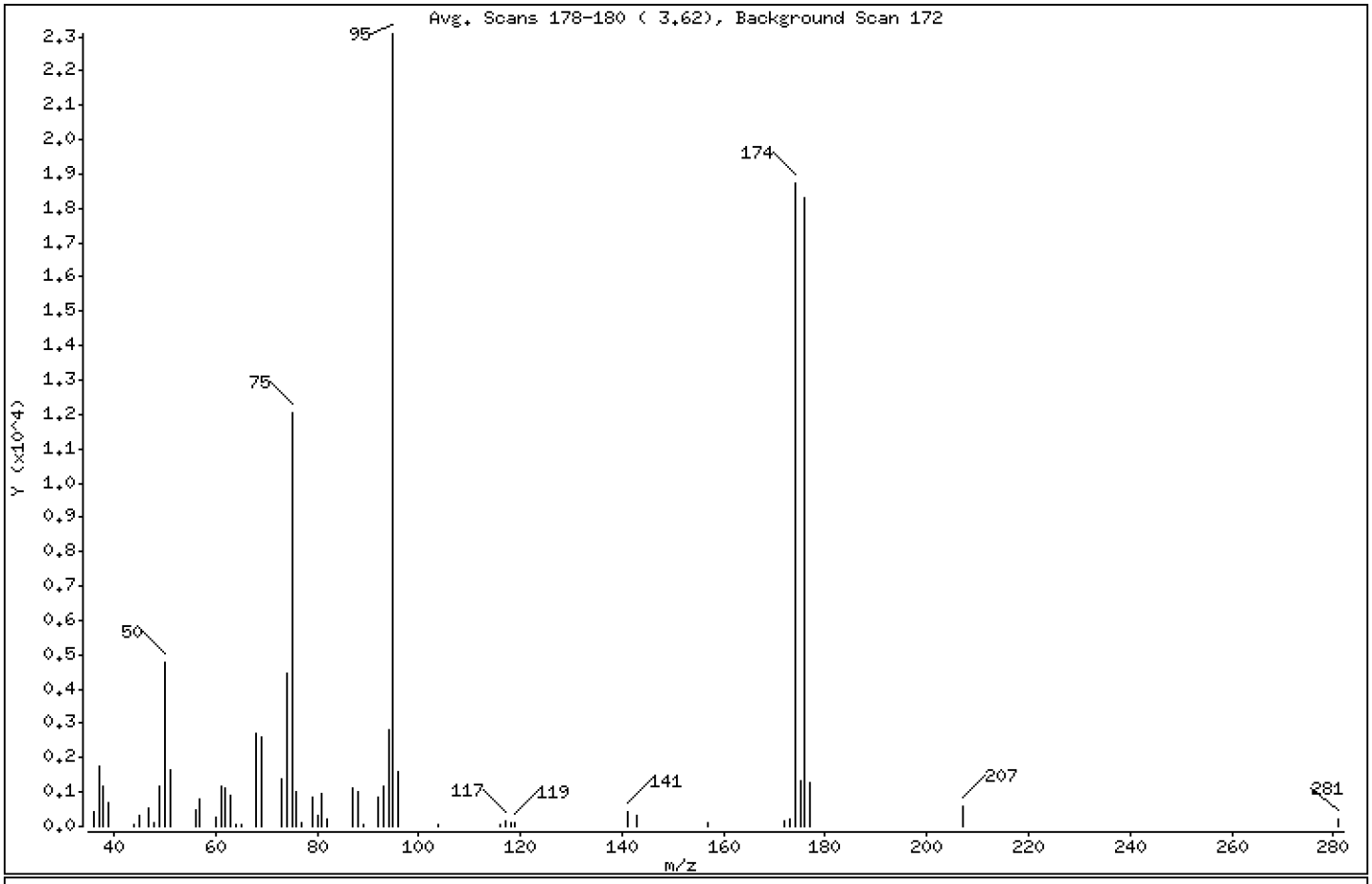
Sample Info: WG134694-11,WE40-1

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.58
75	30.00 - 60.00% of mass 95	52.29
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.92 (1.13)
174	Greater than 50.00% of mass 95	81.04
175	5.00 - 9.00% of mass 174	5.77 (7.12)
176	95.00 - 101.00% of mass 174	79.31 (97.86)
177	5.00 - 9.00% of mass 176	5.54 (6.99)

Date : 19-NOV-2013 08:50

Client ID: Instrument: gcms-d.i

Sample Info: WG134694-11,WE40-1

Operator: DJP

Column phase: RTX-VMS Column diameter: 0.18

Data File: DB246.D
Spectrum: Avg. Scans 178-180 (3.62), Background Scan 172
Location of Maximum: 95.00
Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	410	61.00	1158	81.00	962	119.00	97
37.00	1767	62.00	1120	82.00	232	141.00	418
38.00	1166	63.00	898	87.00	1114	143.00	332
39.00	671	64.00	70	88.00	1020	157.00	86
44.00	33	65.00	77	89.00	72	172.00	163
45.00	298	68.00	2688	92.00	853	173.00	212
47.00	518	69.00	2614	93.00	1166	174.00	18704
48.00	94	73.00	1390	94.00	2829	175.00	1331
49.00	1174	74.00	4431	95.00	23080	176.00	18304
50.00	4749	75.00	12068	96.00	1569	177.00	1279
51.00	1661	76.00	1024	104.00	70	207.00	564
56.00	502	77.00	90	116.00	71	281.00	196
57.00	820	79.00	838	117.00	181		
60.00	274	80.00	336	118.00	89		

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\DB253.D

Date : 27-NOV-2013 08:09

Client ID:

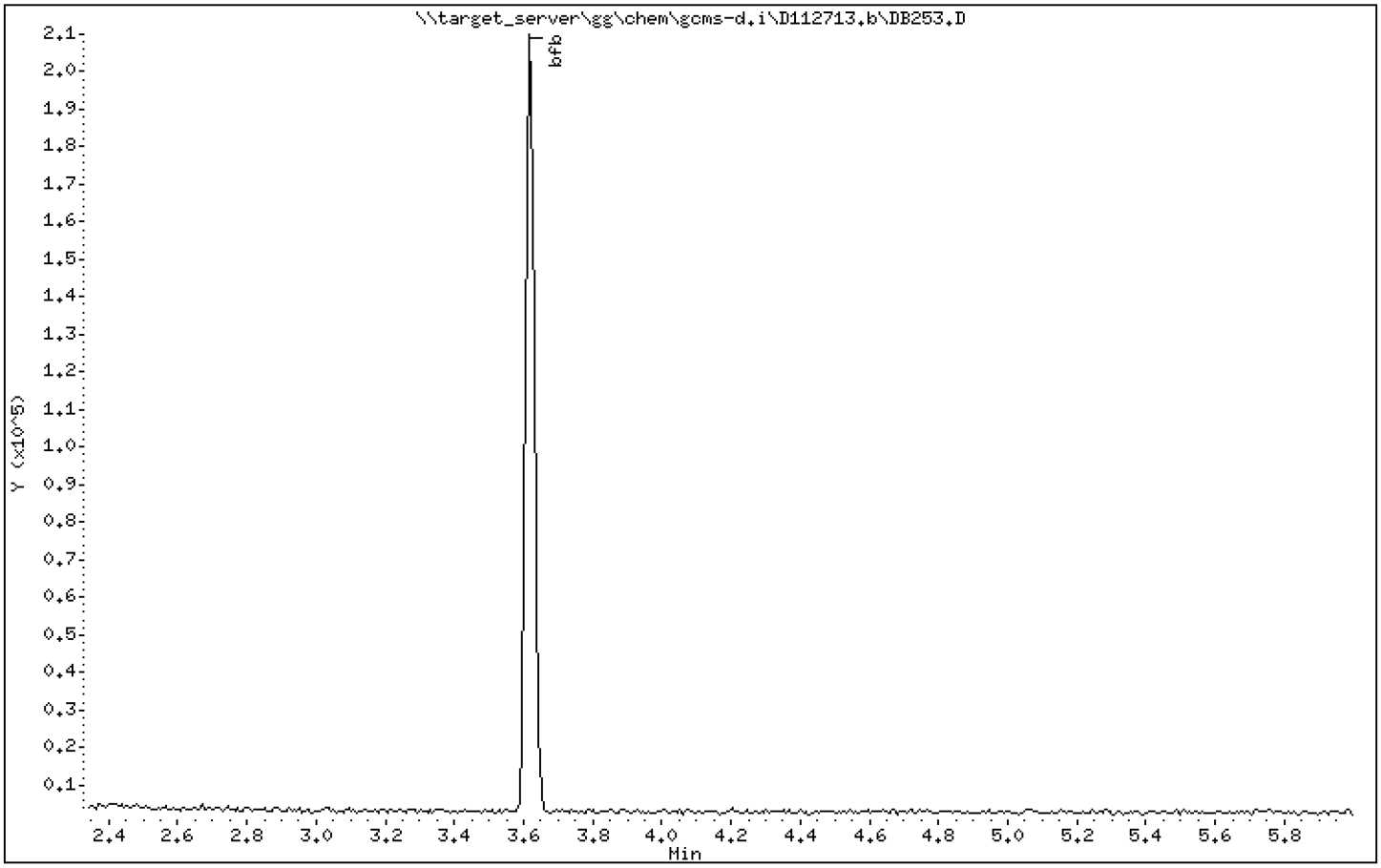
Instrument: gcms-d.i

Sample Info: WG135258-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\DB253.D

Date : 27-NOV-2013 08:09

Client ID:

Instrument: gcms-d.i

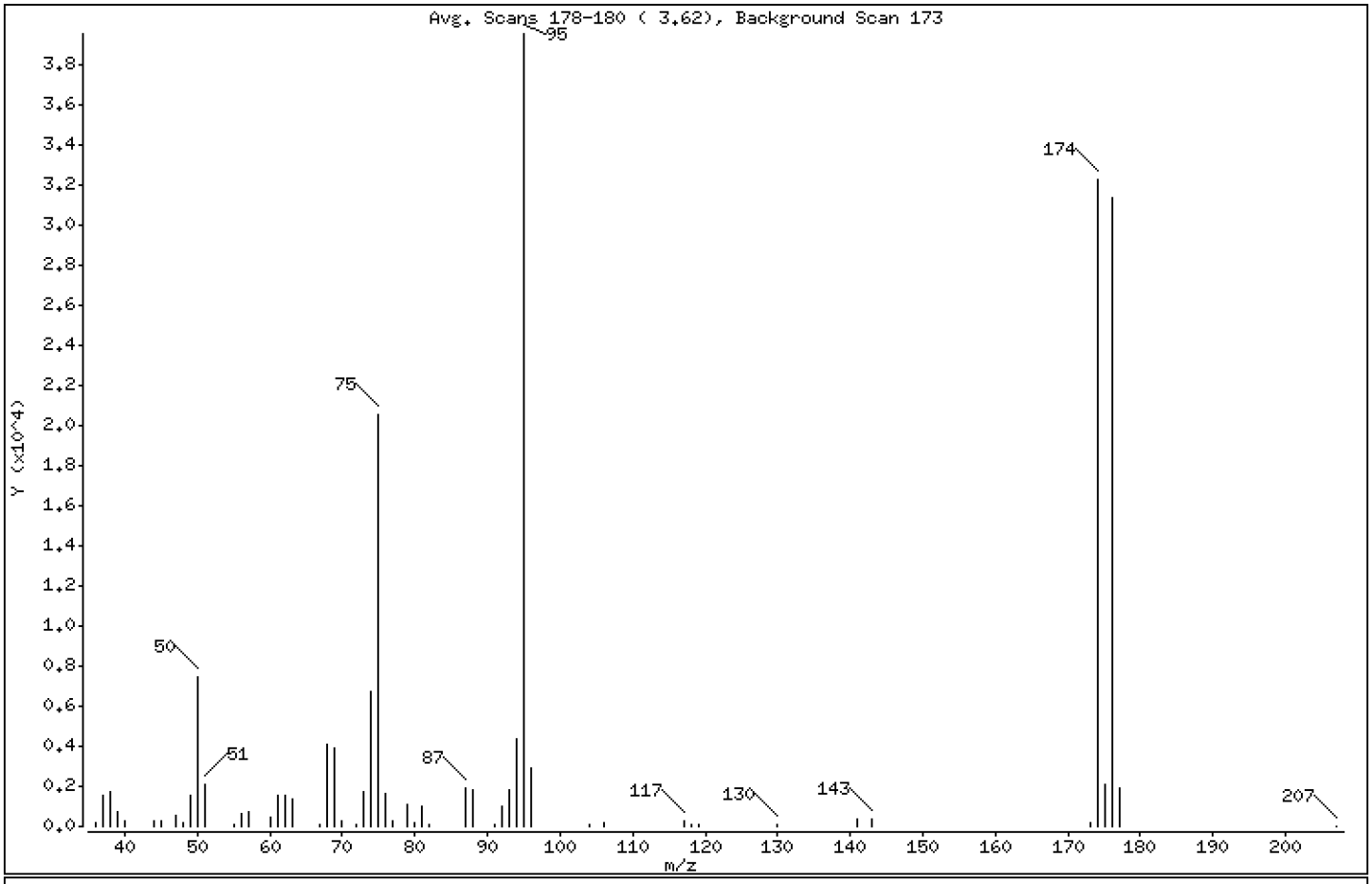
Sample Info: WG135258-3,WE40-1

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.89
75	30.00 - 60.00% of mass 95	52.01
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.39 (0.48)
174	Greater than 50.00% of mass 95	81.61
175	5.00 - 9.00% of mass 174	5.37 (6.59)
176	95.00 - 101.00% of mass 174	79.27 (97.13)
177	5.00 - 9.00% of mass 176	4.86 (6.13)

Date : 27-NOV-2013 08:09

Client ID: Instrument: gcms-d.i

Sample Info: WG135258-3,WE40-1

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: DB253.D
Spectrum: Avg. Scans 178-180 (3.62), Background Scan 173
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	181	57.00	748	77.00	259	106.00	216
37.00	1537	60.00	443	79.00	1107	117.00	289
38.00	1716	61.00	1520	80.00	153	118.00	93
39.00	724	62.00	1568	81.00	1028	119.00	101
40.00	272	63.00	1349	82.00	83	130.00	75
44.00	311	67.00	92	87.00	1937	141.00	331
45.00	269	68.00	4119	88.00	1806	143.00	356
47.00	537	69.00	3938	91.00	67	173.00	156
48.00	185	70.00	239	92.00	1035	174.00	32312
49.00	1569	72.00	74	93.00	1783	175.00	2128
50.00	7477	73.00	1736	94.00	4347	176.00	31384
51.00	2134	74.00	6749	95.00	39592	177.00	1923
55.00	87	75.00	20592	96.00	2874	207.00	2
56.00	599	76.00	1625	104.00	87		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134916-2
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: C4422.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134916

Analysis Date: 22-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		87.6	%					
Toluene-d8		91.4	%					
1,2-Dichloroethane-d4		97.5	%					
Dibromofluoromethane		92.4	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4422.D
Report Date: 02-Dec-2013 12:01

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112213.b\C4422.D
Lab Smp Id: WG134916-2 Client Smp ID: WG134916-Blank
Inj Date : 22-NOV-2013 11:04
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134916-2,WE40-1
Misc Info : WG134916,WG134365-4,SG9044-10
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112213.b\C826A90.m
Meth Date : 02-Dec-2013 12:00 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

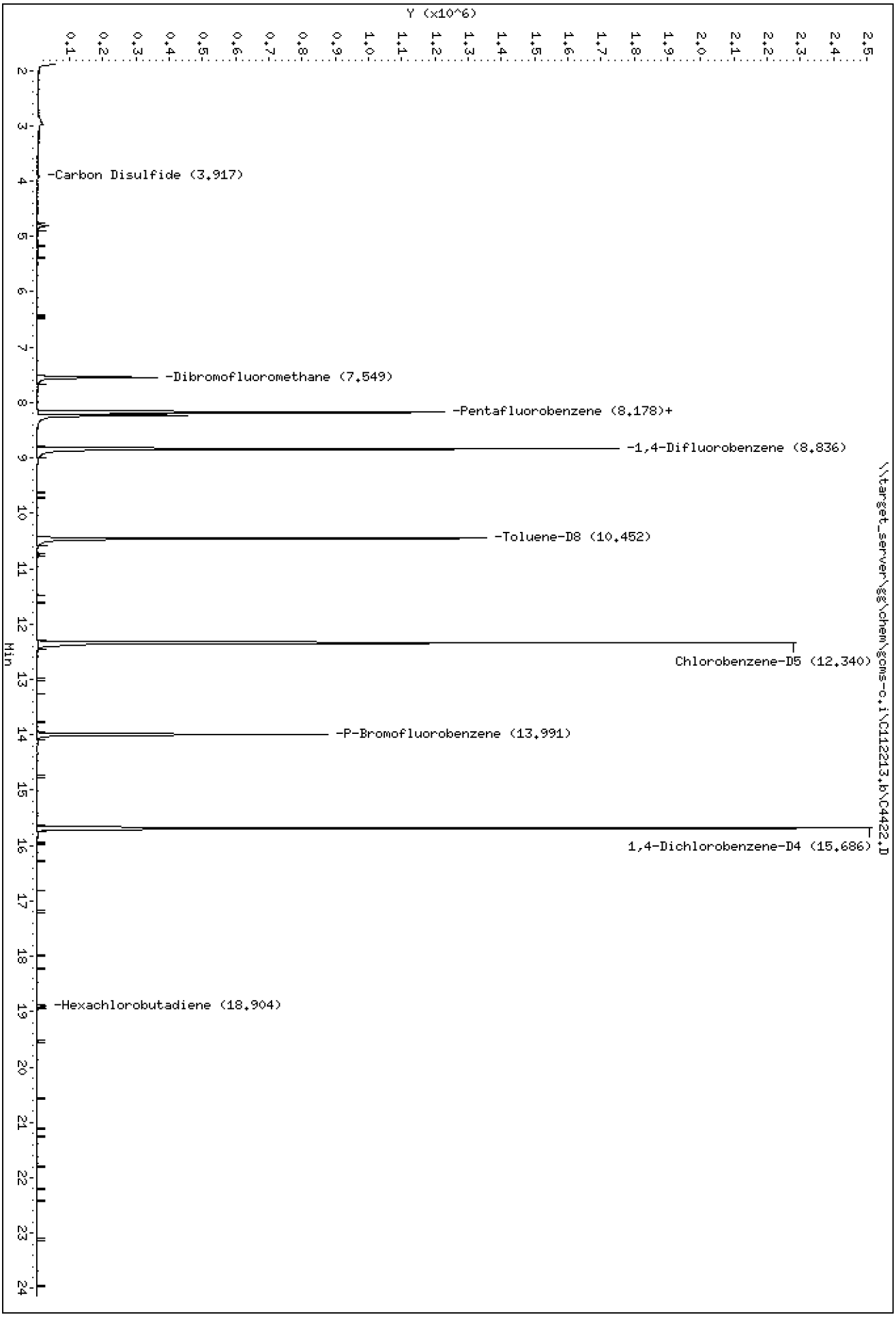
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	10 Carbon Disulfide	76	3.916	3.917	(0.479)	9523	0.59500	0.59(a)	
$	37 Dibromofluoromethane	113	7.549	7.549	(0.923)	242928	46.1884	46.2	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	689584	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.228	8.228	(1.006)	277923	48.7631	48.8	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1233132	50.0000		
$	55 Toluene-D8	98	10.452	10.452	(1.183)	823286	45.6968	45.7	
*	66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1220551	50.0000		
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	368767	43.8262	43.8	
*	91 1,4-Dichlorobenzene-D4	152	15.685	15.686	(1.000)	665280	50.0000		
	98 Hexachlorobutadiene	225	18.903	18.904	(1.205)	5256	1.43005	1.4	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Min
-Carbon Disulfide (3.917)
-Dibromofluoromethane (7.549)
-Pentafluorobenzene (8.178)+
-1,4-Difluorobenzene (8.836)
-Toluene-D8 (10.452)
Chlorobenzene-D5 (12.340)
-P-Bromofluorobenzene (13.991)
1,4-Dichlorobenzene-D4 (15.686)
-Hexachlorobutadiene (18.904)
\\target_server\gg\chem\gcms-c.i\C112213.b\C4422.D
Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4422.D
Date : 22-NOV-2013 11:04
Client ID: WG134916-Blank
Sample Info: WG134916-2,WE40-1
Instrument: gcms-c.i

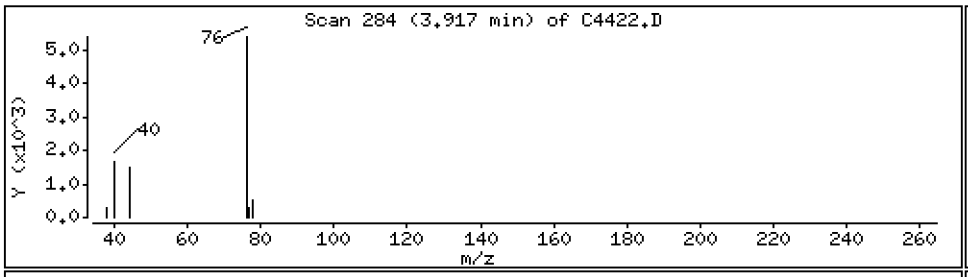
Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4422.D

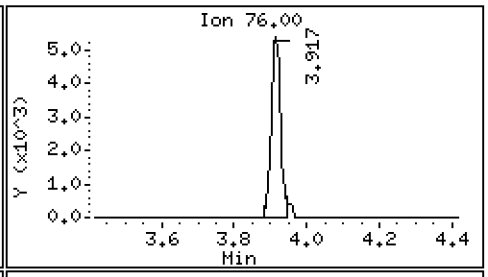
Date : 22-NOV-2013 11:04

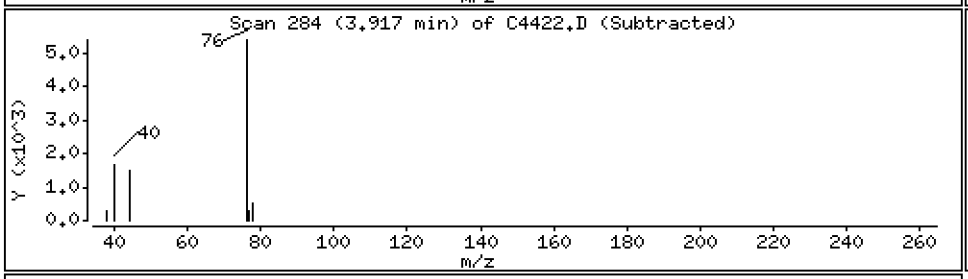
Client ID: WG134916-Blank Instrument: gcms-c.i

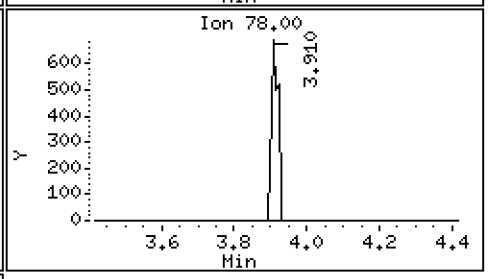
Sample Info: WG134916-2,WE40-1

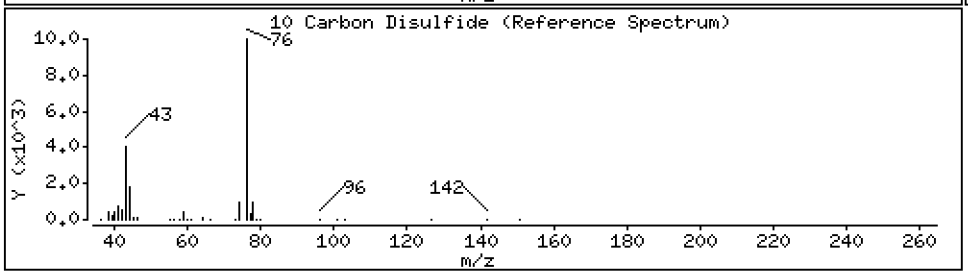
10 Carbon Disulfide Concentration: 0.59 ug/l



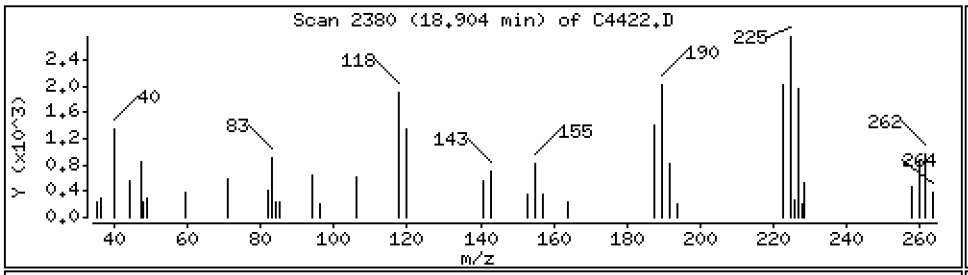


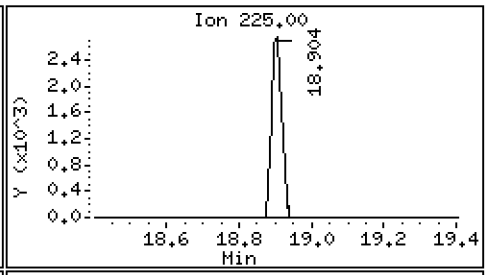


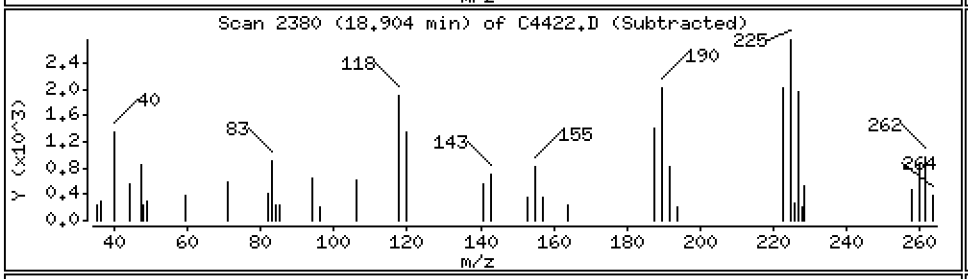


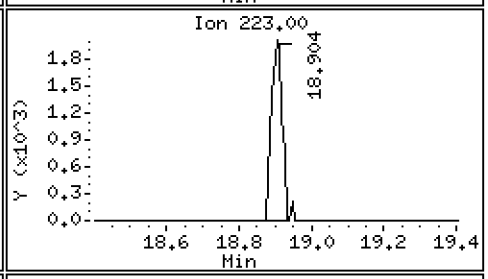


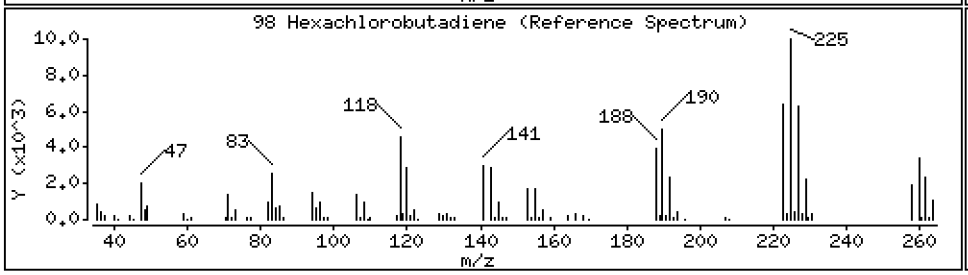
98 Hexachlorobutadiene Concentration: 1.4 ug/l

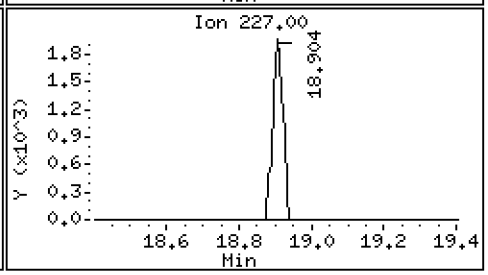












Report of Analytical Results

Client:
Lab ID: WG134916-5
Client ID: Methanol Blank
Project:
SDG: WE40-1
Lab File ID: C4423.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134916

Analysis Date: 22-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	250	32.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	55.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	70.	120
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	750	65.	380
m+p-Xylenes	U	250	ug/Kgdrywt	1	10	500	85.	250
o-Xylene	U	120	ug/Kgdrywt	1	5	250	65.	120
p-Bromofluorobenzene		88.1	%					
Toluene-D8		92.1	%					
1,2-Dichloroethane-D4		99.0	%					
Dibromofluoromethane		89.9	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4423.D
Report Date: 02-Dec-2013 12:01

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112213.b\C4423.D
Lab Smp Id: WG134916-5 Client Smp ID: WG134916-MeOHBlank
Inj Date : 22-NOV-2013 11:36
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134916-5,WE40-1
Misc Info : WG134916,WG134365-4,SG9044-10
Comment : SW846 5030,MEOH
Method : \\Target_server\gg\chem\gcms-c.i\C112213.b\C826A90.m
Meth Date : 02-Dec-2013 12:00 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 7 QC Sample: MEOHBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

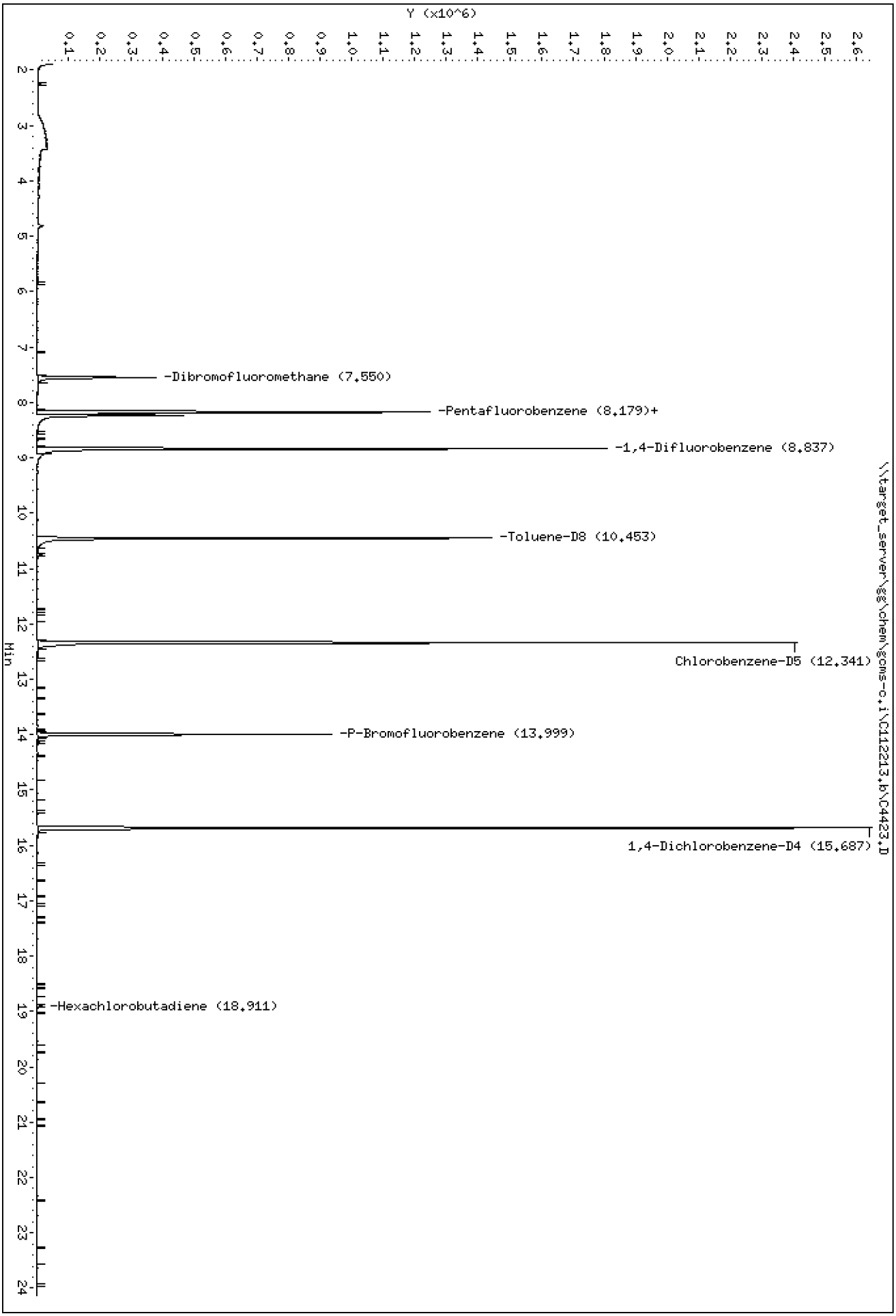
Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vo	20000.000	Prep Volume (uL)
Ws	5.000	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	400.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$	37 Dibromofluoromethane	113	7.549	7.549	(0.923)	250119	44.9732	2250	
*	42 Pentafluorobenzene	168	8.179	8.178	(1.000)	729180	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.236	8.228	(1.007)	298342	49.5032	2480	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1332003	50.0000		
$	55 Toluene-D8	98	10.452	10.452	(1.183)	896176	46.0504	2300	
*	66 Chlorobenzene-D5	117	12.340	12.340	(1.000)	1296910	50.0000		
$	76 P-Bromofluorobenzene	95	13.992	13.992	(1.583)	400492	44.0636	2200	
*	91 1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	705876	50.0000		
	98 Hexachlorobutadiene	225	18.904	18.904	(1.205)	3132	0.80314	40.2(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Date : 22-NOV-2013 11:36
Client ID: WG134916-MeOHBlank
Sample Info: WG134916-5,ME40-1

Instrument: gcms-c.i

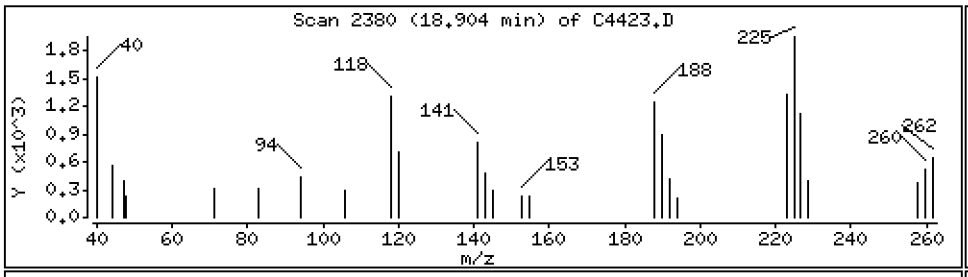
Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4423.D

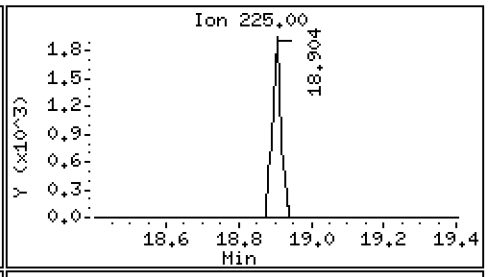
Date : 22-NOV-2013 11:36

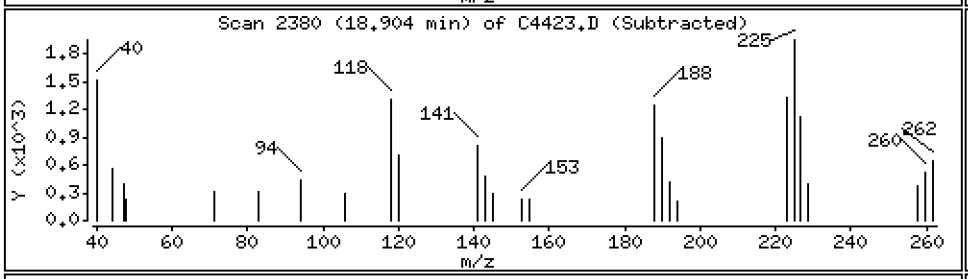
Client ID: WG134916-MeOHBlank Instrument: gcms-c.i

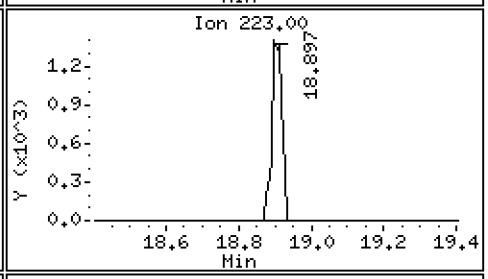
Sample Info: WG134916-5,WE40-1

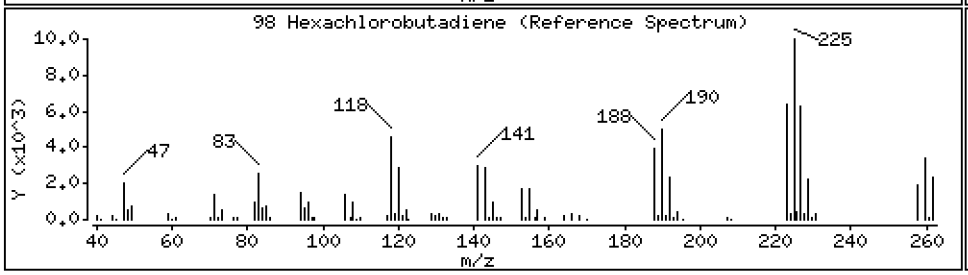
98 Hexachlorobutadiene Concentration: 40.2 ug/Kgdrywt

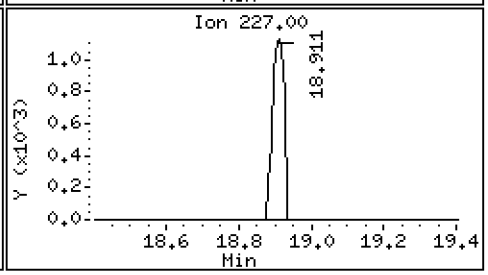












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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134993-2
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: C4448.D

Sample Date:
Received Date:
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		87.0	%					
Toluene-d8		91.7	%					
1,2-Dichloroethane-d4		86.9	%					
Dibromofluoromethane		87.9	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4448.D
Report Date: 02-Dec-2013 12:10

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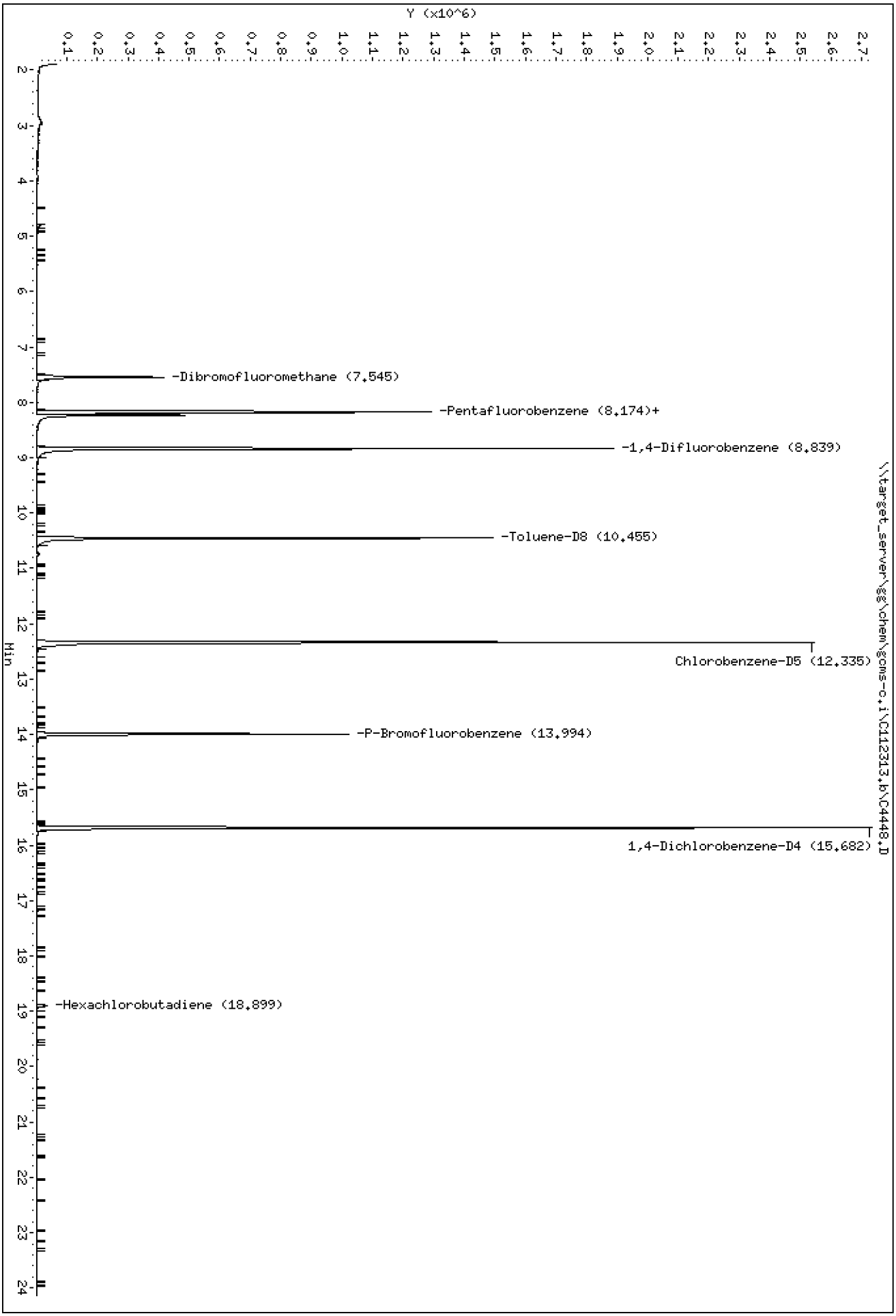
Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4448.D
Lab Smp Id: WG134993-2 Client Smp ID: WG134993-Blank
Inj Date : 23-NOV-2013 10:48
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134993-2,WE40-1
Misc Info : WG134993,WG134365-4,SG9044-1
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.544	7.549	(0.922)	273086	43.9374	43.9	
* 42 Pentafluorobenzene	168	8.181	8.178	(1.000)	814906	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.231	8.228	(1.006)	292566	43.4380	43.4	
* 49 1,4-Difluorobenzene	114	8.838	8.836	(1.000)	1413621	50.0000		
$ 55 Toluene-D8	98	10.454	10.452	(1.183)	947340	45.8688	45.9	
* 66 Chlorobenzene-D5	117	12.335	12.340	(1.000)	1390350	50.0000		
$ 76 P-Bromofluorobenzene	95	13.994	13.992	(1.583)	419789	43.5201	43.5	
* 91 1,4-Dichlorobenzene-D4	152	15.688	15.686	(1.000)	783152	50.0000		
98 Hexachlorobutadiene	225	18.906	18.904	(1.205)	7548	1.74456	1.7	



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Date : 23-NOV-2013 10:48
Client ID: WG134993-Blank
Sample Info: WG134993-2,WE40-1

Instrument: gcms-c.i

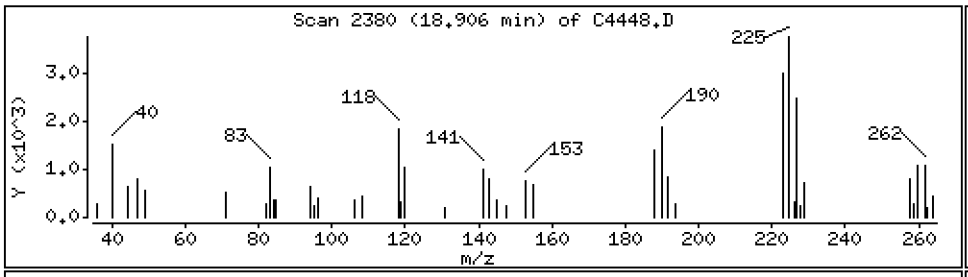
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4448.D

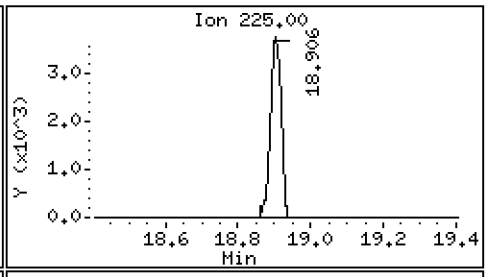
Date : 23-NOV-2013 10:48

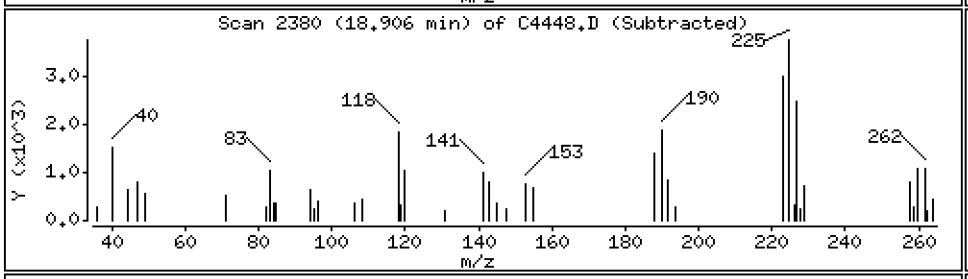
Client ID: WG134993-Blank Instrument: gcms-c.i

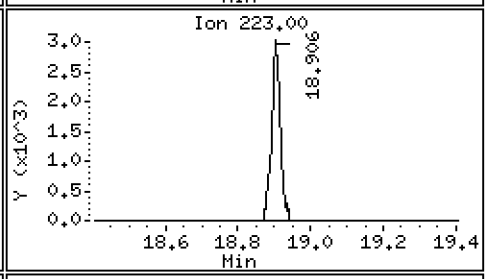
Sample Info: WG134993-2,WE40-1

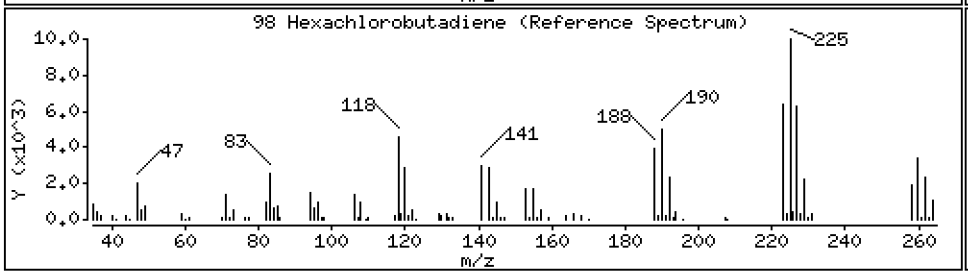
98 Hexachlorobutadiene Concentration: 1.7 ug/l

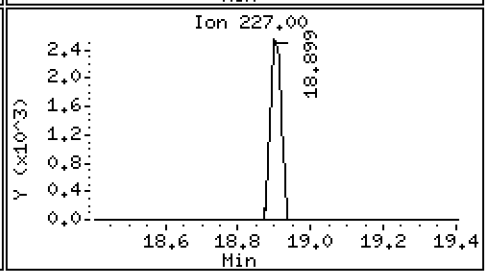












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134993-5
Client ID: Methanol Blank
Project:
SDG: WE40-1
Lab File ID: C4449.D

Sample Date:
Received Date:
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: SL
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	250	32.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	55.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	70.	120
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	750	65.	380
m+p-Xylenes	U	250	ug/Kgdrywt	1	10	500	85.	250
o-Xylene	U	120	ug/Kgdrywt	1	5	250	65.	120
p-Bromofluorobenzene		87.4	%					
Toluene-D8		91.6	%					
1,2-Dichloroethane-D4		86.2	%					
Dibromofluoromethane		84.3	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4449.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4449.D
Lab Smp Id: WG134993-5 Client Smp ID: WG134993-MeOHBlank
Inj Date : 23-NOV-2013 11:22
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134993-5,WE40-1
Misc Info : WG134993,WG134365-4,SG9044-1
Comment : SW846 5030,MEOH
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 6 QC Sample: MEOHBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

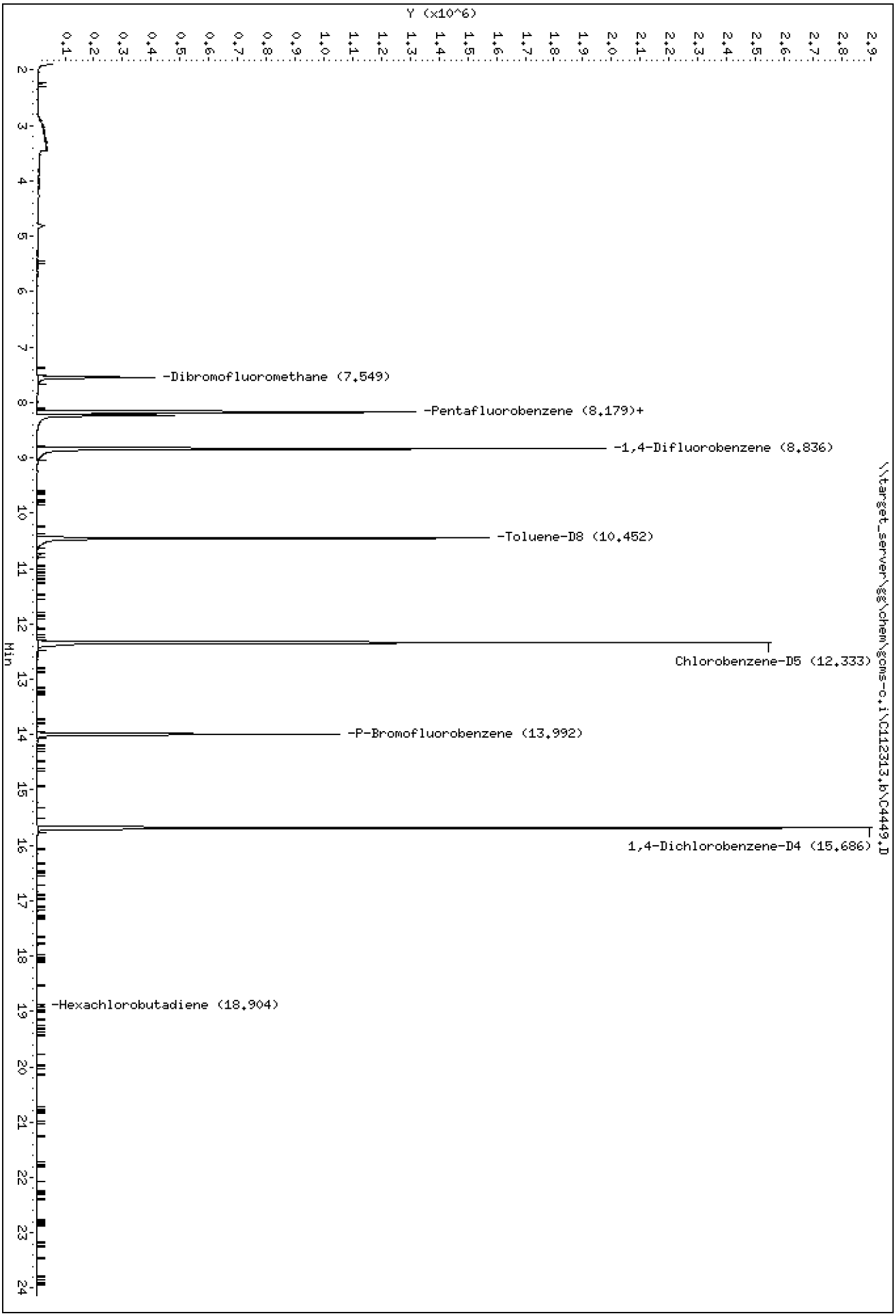
Concentration Formula:
Amt * DF * (100/(100-M))*(Vo/Ws)*(Vt+(Ws-(((100-M)/100)*Ws)))/Va * CpndVaria

Name	Value	Description
DF	1.000	Dilution Factor
M	0.00000	% moisture
Vo	20000.000	Prep Volume (uL)
Ws	5.000	Weight of Sample (g)
Vt	5.000	Volume of MeOH (mL)
Va	400.000	MeOH Aliquot (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kgdrywt)	REVIEW COD
$	37 Dibromofluoromethane	113	7.549	7.549	(0.923)	273996	42.1687	2110	
*	42 Pentafluorobenzene	168	8.178	8.178	(1.000)	851915	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.235	8.228	(1.007)	303375	43.0861	2150	
*	49 1,4-Difluorobenzene	114	8.836	8.836	(1.000)	1491466	50.0000		
$	55 Toluene-D8	98	10.452	10.452	(1.183)	997748	45.7881	2290	
*	66 Chlorobenzene-D5	117	12.339	12.340	(1.000)	1482601	50.0000		
$	76 P-Bromofluorobenzene	95	13.991	13.992	(1.583)	444990	43.7249	2190	
*	91 1,4-Dichlorobenzene-D4	152	15.686	15.686	(1.000)	819455	50.0000		
	98 Hexachlorobutadiene	225	18.910	18.904	(1.206)	4384	0.96838	48.4(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\target_server\gc\chem\gcms-c.i\C112313.b\C4449.D
Date : 23-NOV-2013 11:22
Client ID: WG134993-MeOHBlank
Sample Info: WG134993-5,ME40-1

Instrument: gcms-c.i

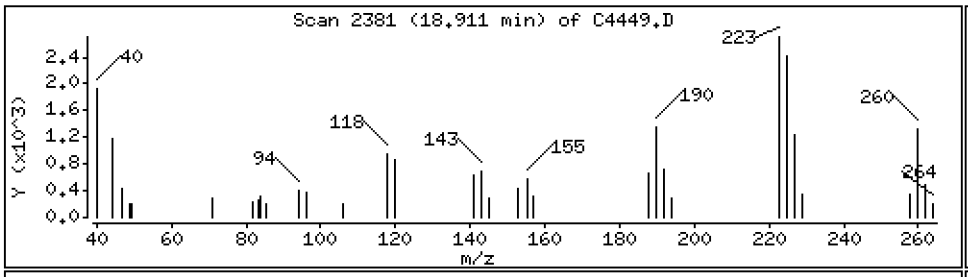
Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4449.D

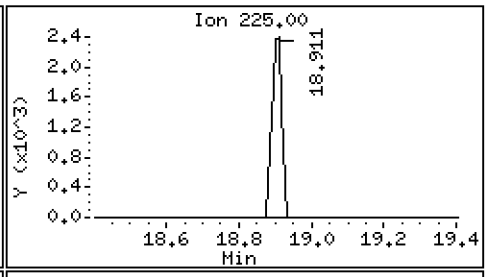
Date : 23-NOV-2013 11:22

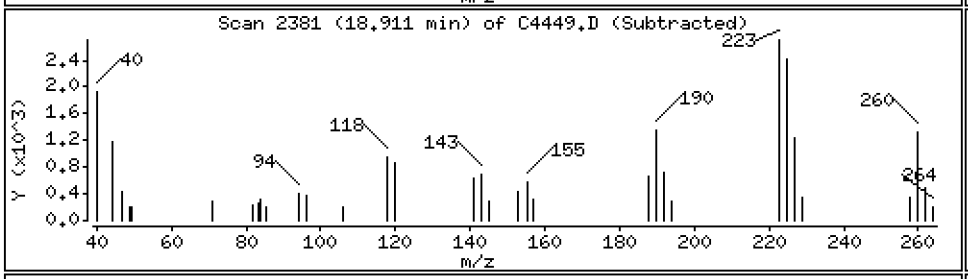
Client ID: WG134993-MeOHBlank Instrument: gcms-c.i

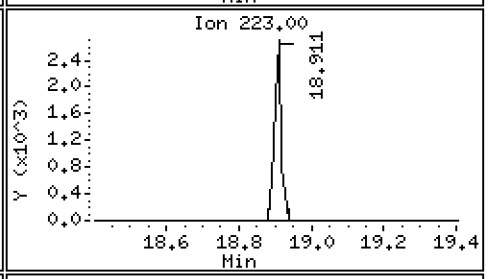
Sample Info: WG134993-5,WE40-1

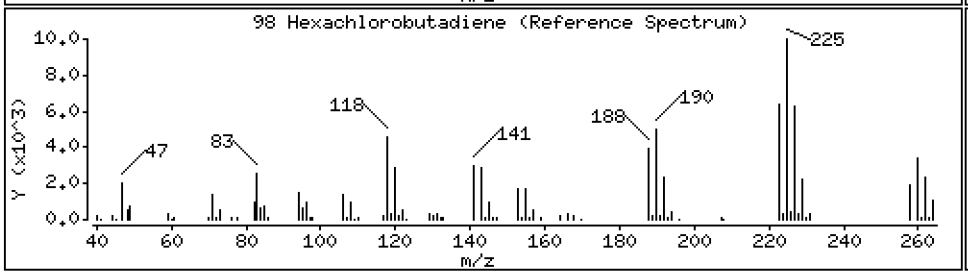
98 Hexachlorobutadiene Concentration: 48.4 ug/Kgdrywt

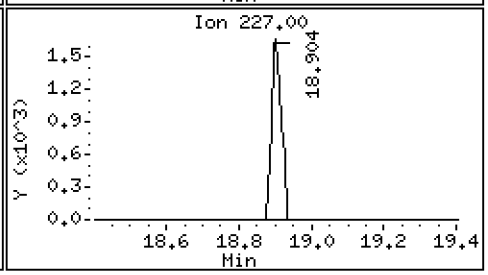












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG135258-2
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: D6921.D

Sample Date:
Received Date:
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
P-Bromofluorobenzene		98.6	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		94.4	%					
Dibromofluoromethane		96.1	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6921.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6921.D
Lab Smp Id: WG135258-2 Client Smp ID: WG135258-Blank
Inj Date : 27-NOV-2013 12:47
Operator : REC Inst ID: gcms-d.i
Smp Info : WG135258-2,WE40-1
Misc Info : WG135258,WG134694-4,SG9180-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

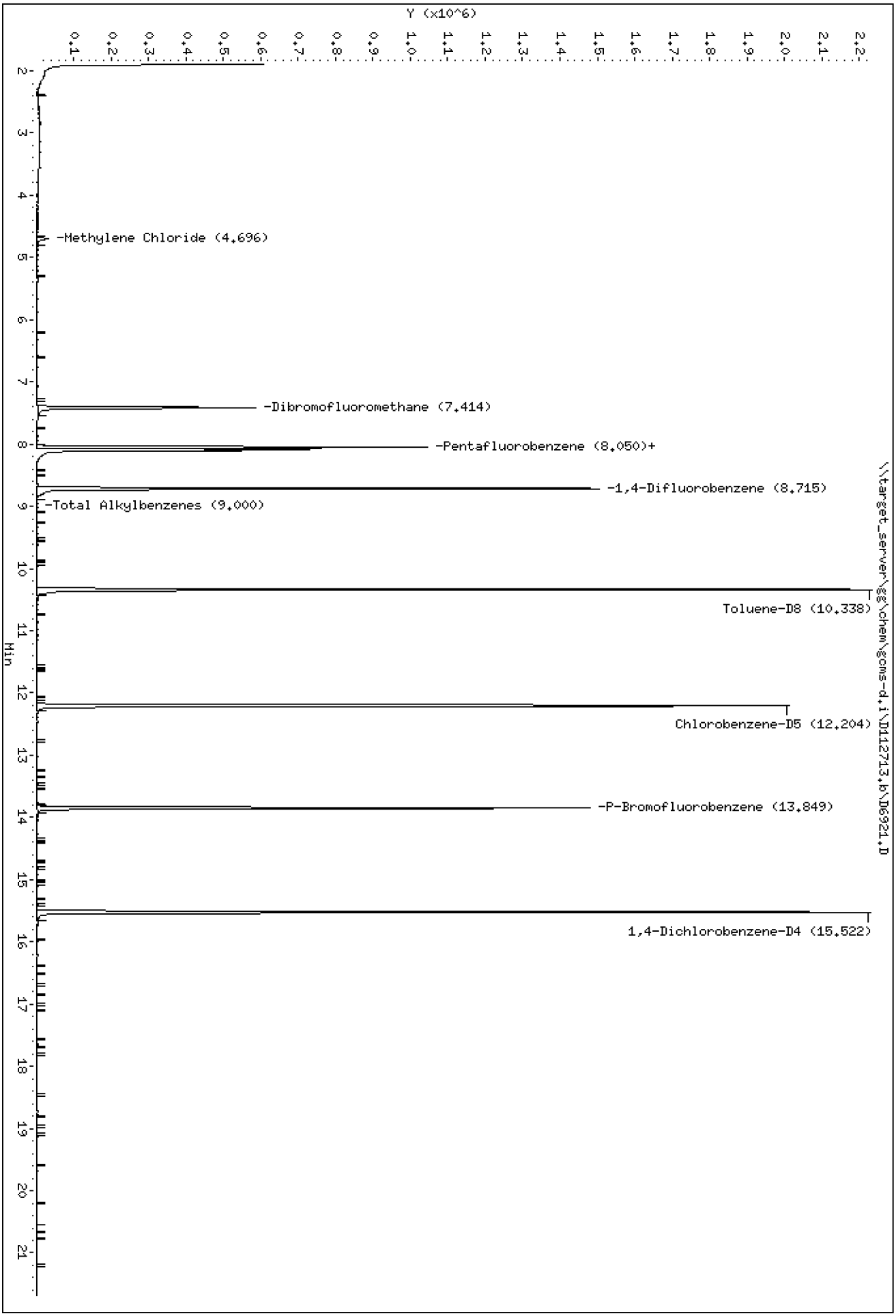
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	14 Methylene Chloride	84	4.703	4.691	(0.584)	16715	2.05138	2.0(a)	
$	37 Dibromofluoromethane	113	7.413	7.408	(0.921)	325454	48.0415	48.0	
*	42 Pentafluorobenzene	168	8.049	8.052	(1.000)	667183	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.092	8.095	(1.005)	445260	47.2086	47.2	
*	49 1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1103862	50.0000		
$	55 Toluene-D8	98	10.337	10.333	(1.186)	1275057	50.2562	50.2	
*	66 Chlorobenzene-D5	117	12.204	12.199	(1.000)	1026047	50.0000		
$	76 P-Bromofluorobenzene	95	13.841	13.843	(1.588)	508510	49.3243	49.3	
*	91 1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	613603	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
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0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
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1.4
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19
20
21
Min
-Methylene Chloride (4.696)
-Dibromofluoromethane (7.414)
-Pentafluorobenzene (8.050)+
-1,4-Difluorobenzene (8.715)
-Total Alkylbenzenes (9.000)
Toluene-D8 (10.338)
Chlorobenzene-D5 (12.204)
-P-Bromofluorobenzene (13.849)
1,4-Dichlorobenzene-D4 (15.522)
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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6921.D
Date : 27-NOV-2013 12:47
Client ID: WG135258-Blank
Sample Info: WG135258-2,WE40-1
Instrument: gcms-d.i

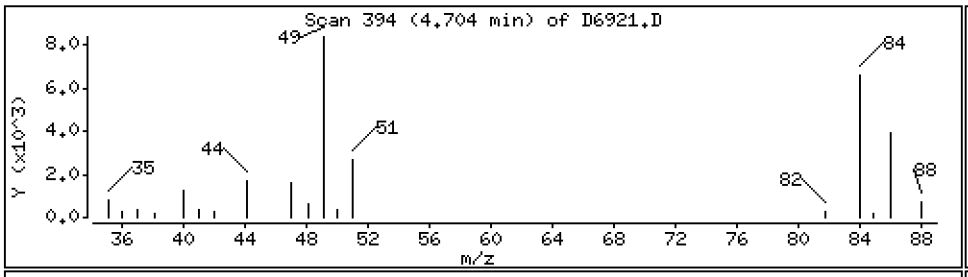
Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6921.D

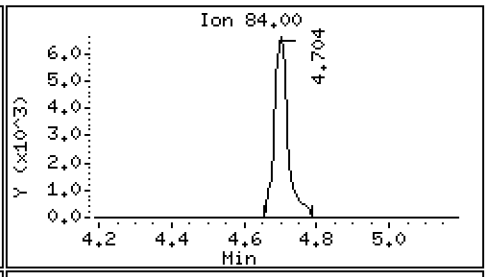
Date : 27-NOV-2013 12:47

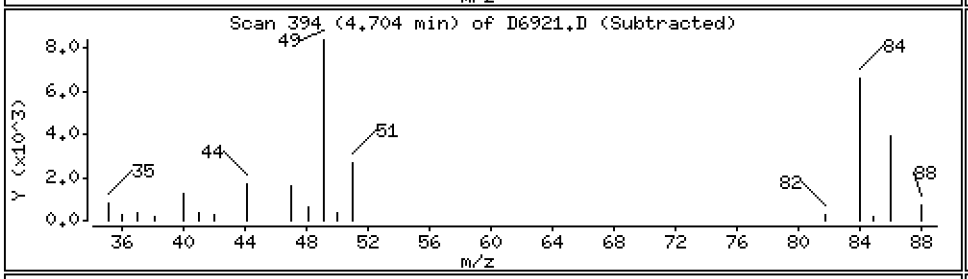
Client ID: WG135258-Blank Instrument: gcms-d.i

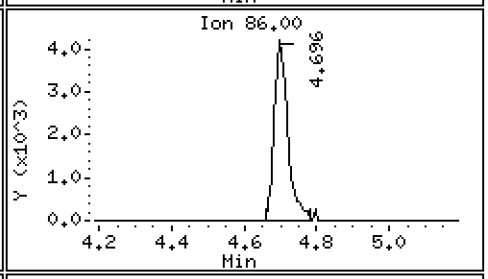
Sample Info: WG135258-2,WE40-1

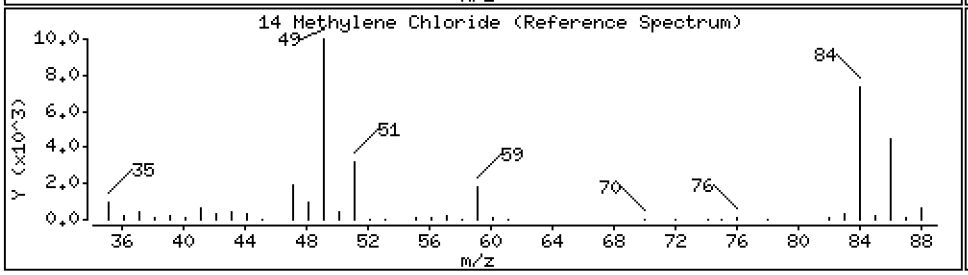
14 Methylene Chloride Concentration: 2.0 ug/l

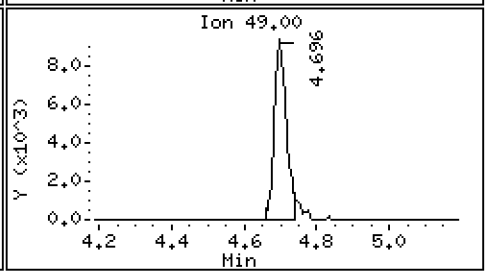












Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG134916-1
Client ID: LCS
Project:
SDG: WE40-1
LCS File ID: C4418.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134916

Analysis Date: 22-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Benzene	105.	50.0	52.6	ug/L	80-120
Ethylbenzene	98.4	50.0	49.2	ug/L	75-125
Methyl tert-butyl Ether	93.6	100.	93.6	ug/L	65-125
Toluene	102.	50.0	51.1	ug/L	75-120
Xylenes (total)	107.	150.	160.	ug/L	89-116
o-Xylene	110.	50.0	55.2	ug/L	80-120
M+P-Xylenes	104.	100.	104.	ug/L	75-130
P-Bromofluorobenzene	91.2				75-120
Toluene-d8	90.7				85-120
1,2-Dichloroethane-d4	90.0				70-120
Dibromofluoromethane	85.8				85-115

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Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4418.D
Report Date: 02-Dec-2013 12:01

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Data file : \\target_server\gg\chem\gcms-c.i\C112213.b\C4418.D
Lab Smp Id: WG134916-1 Client Smp ID: WG134916-LCS
Inj Date : 22-NOV-2013 08:59
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134916-1,WE40-1
Misc Info : WG134916,WG134365-4,SG9044-10
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112213.b\C826A90.m
Meth Date : 02-Dec-2013 12:00 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.052	2.051	(0.251)	283871	32.0821	32.1	
2	Chloromethane	50	2.302	2.301	(0.281)	420313	35.3065	35.3	
3	Vinyl chloride	62	2.402	2.401	(0.294)	348920	39.4340	39.4	
4	Bromomethane	94	2.817	2.816	(0.344)	205862	44.4733	44.5	
5	Chloroethane	64	2.974	2.980	(0.364)	112023	26.0445	26.0(R)	
6	Trichlorofluoromethane	101	3.160	3.166	(0.386)	457996	49.7742	49.8	
7	Diethyl Ether	59	3.611	3.602	(0.441)	220104	40.8076	40.8	
8	Tertiary-butyl alcohol	59	5.498	5.490	(0.672)	114784	191.618	192	
9	1,1-Dichloroethene	96	3.882	3.881	(0.475)	269268	58.1979	58.2	
10	Carbon Disulfide	76	3.911	3.917	(0.478)	959879	53.6387	53.6	
11	Freon-113	151	3.947	3.946	(0.483)	128068	43.7133	43.7	
12	Iodomethane	142	4.090	4.089	(0.500)	296063	66.2019	66.2	
13	Acrolein	56	4.412	4.410	(0.539)	187704	169.871	170	
14	Methylene Chloride	84	4.812	4.811	(0.588)	366447	50.1220	50.1	
15	Acetone	43	4.912	4.904	(0.601)	106558	47.2575	47.2	
16	Isobutyl Alcohol	43	8.380	8.379	(1.024)	206658	819.879	820	
17	trans-1,2-Dichloroethene	96	5.091	5.090	(0.622)	299828	49.1908	49.2	
18	Allyl Chloride	41	4.626	4.632	(0.566)	447214	38.8349	38.8(R)	
19	Methyl tert-butyl ether	73	5.291	5.290	(0.647)	1495427	93.6538	93.6	
20	Acetonitrile	39	5.699	5.697	(0.697)	90337	408.471	408	
21	Di-isopropyl ether	45	5.942	5.940	(0.726)	930013	40.5904	40.6	
22	Chloroprene	53	6.070	6.069	(0.742)	414662	43.6826	43.7	
23	Propionitrile	54	8.101	8.106	(0.990)	409603	389.248	389	
24	Methacrylonitrile	41	8.130	8.128	(0.994)	1788472	380.762	381(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4418.D
Report Date: 02-Dec-2013 12:01

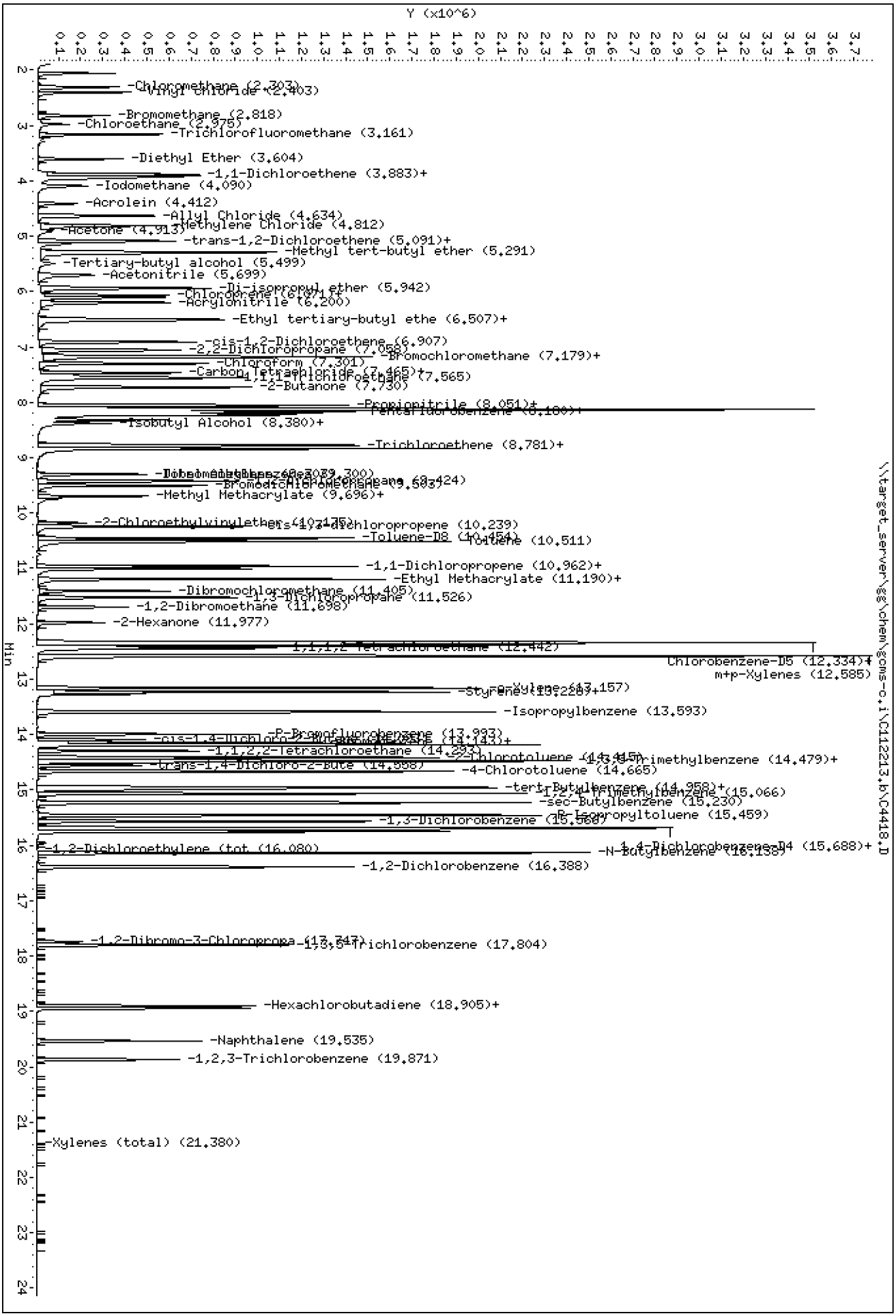
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.106	6.105	(0.747)	629429	52.4623	52.5	
	26 Acrylonitrile	52	6.199	6.198	(0.758)	446325	195.169	195	
	27 Ethyl tertiary-butyl ether	59	6.499	6.498	(0.795)	783927	43.0713	43.1	
	28 Vinyl Acetate	43	6.521	6.520	(0.738)	811714	63.3229	63.3	
	29 cis-1,2-Dichloroethene	96	6.907	6.913	(0.844)	332016	48.5227	48.5	
M	30 1,2-Dichloroethylene (total)	96				631844	97.7134	97.7	
	31 Methyl Methacrylate	41	9.695	9.694	(1.097)	244741	42.5334	42.5	
	32 2,2-Dichloropropane	77	7.057	7.056	(0.863)	494491	55.0386	55.0	
	33 Bromochloromethane	128	7.186	7.185	(0.879)	135899	49.8151	49.8	
	34 Chloroform	83	7.300	7.299	(0.892)	642216	53.5554	53.6	
	35 Carbon Tetrachloride	117	7.465	7.463	(0.845)	450651	59.8611	59.9	
	36 Tetrahydrofuran	42	7.508	7.506	(0.918)	93089	43.9404	43.9	
$	37 Dibromofluoromethane	113	7.543	7.549	(0.922)	252148	42.8777	42.9	
	38 1,1,1-Trichloroethane	97	7.565	7.564	(0.925)	560355	55.3292	55.3	
	39 1,1-Dichloropropene	75	11.004	11.003	(1.245)	512569	56.4148	56.4	
	40 2-Butanone	43	7.729	7.721	(0.945)	143773	44.1013	44.1	
	41 Benzene	78	8.051	8.057	(0.911)	1289291	52.5860	52.6	
*	42 Pentafluorobenzene	168	8.180	8.178	(1.000)	771021	50.0000		
	43 Cyclohexane	56	7.171	7.170	(0.877)	603911	56.8634	56.9	
	44 Ethyl Methacrylate	69	11.190	11.189	(1.266)	349163	44.1051	44.1	
$	45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.006)	286918	45.0242	45.0	
	46 Tertiary-amyl methyl ether	73	8.215	8.214	(1.004)	664372	42.2291	42.2	
	47 1,2-Dichloroethane	62	8.315	8.314	(0.941)	433234	57.8685	57.9	
	48 Trichloroethene	95	8.787	8.786	(0.994)	326951	55.7218	55.7	
*	49 1,4-Difluorobenzene	114	8.837	8.836	(1.000)	1330784	50.0000		
	50 Dibromomethane	93	9.302	9.301	(1.053)	203248	49.9847	50.0	
	51 1,2-Dichloropropane	63	9.424	9.423	(1.066)	327741	51.8904	51.9	
	52 Bromodichloromethane	83	9.502	9.501	(1.075)	505414	57.4267	57.4	
	53 cis-1,3-dichloropropene	75	10.239	10.245	(1.159)	563515	52.0053	52.0	
	54 1,4-Dioxane	88	9.746	9.737	(1.103)	72252	777.479	777	
$	55 Toluene-D8	98	10.453	10.452	(1.183)	882140	45.3706	45.4	
	56 2-Chloroethylvinylether	63	10.175	10.181	(1.151)	90845	35.3122	35.3	
	57 Toluene	92	10.511	10.509	(1.189)	778911	51.0728	51.1	
	58 4-methyl-2-pentanone	43	10.961	10.960	(1.240)	303484	51.3410	51.3	
	59 Tetrachloroethene	164	10.961	10.960	(0.888)	231673	52.4504	52.4	
	60 trans-1,3-Dichloropropene	75	11.004	11.003	(1.245)	512569	56.4148	56.4	
	61 1,1,2-Trichloroethane	83	11.190	11.196	(1.266)	253084	50.9703	51.0	
	62 Dibromochloromethane	129	11.404	11.410	(0.924)	327920	53.1574	53.2	
	63 1,3-Dichloropropane	76	11.526	11.525	(0.934)	561384	51.5296	51.5	
	64 1,2-Dibromoethane	107	11.697	11.696	(1.324)	293207	49.4183	49.4	
	65 2-Hexanone	43	11.976	11.975	(0.970)	215998	48.1529	48.2	
*	66 Chlorobenzene-D5	117	12.341	12.340	(1.000)	1302536	50.0000		
	67 Chlorobenzene	112	12.362	12.361	(1.002)	812044	53.2025	53.2	
	152 1-Chlorohexane	91	12.327	12.326	(0.999)	515881	48.0889	48.1	
	68 Ethylbenzene	106	12.391	12.390	(1.004)	448270	49.2378	49.2	
	69 1,1,1,2-Tetrachloroethane	131	12.441	12.440	(1.008)	304145	51.9788	52.0	
M	70 Xylenes (total)	106				1652219	159.585	160	
	71 m+p-Xylenes	106	12.584	12.583	(1.020)	1103248	104.327	104	
	72 o-Xylene	106	13.156	13.155	(1.066)	548971	55.2581	55.2	
	73 Styrene	104	13.228	13.226	(1.072)	932110	51.6322	51.6	
	74 Bromoform	173	13.271	13.269	(1.075)	207128	51.2774	51.3	
	75 Isopropylbenzene	105	13.592	13.591	(0.866)	1503473	52.3663	52.4	
$	76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	414290	45.6235	45.6	
	77 cis-1,4-Dichloro-2-Butene	53	14.093	14.092	(0.898)	112152	40.0740	40.1	

Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4418.D
Report Date: 02-Dec-2013 12:01

								CONCENTRATIONS		
			QUANT SIG					ON-COLUMN	FINAL	
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.558	14.556	(0.928)	104730	41.6120	41.6	
	79	Bromobenzene	156	14.143	14.149	(0.902)	332182	47.8324	47.8	
	80	N-Propylbenzene	91	14.186	14.185	(0.904)	1988506	53.3265	53.3	
	81	1,1,2,2-Tetrachloroethane	83	14.293	14.292	(0.911)	419688	43.9709	44.0	
	82	1,3,5-Trimethylbenzene	105	14.479	14.478	(0.923)	1306885	48.4235	48.4	
	83	2-Chlorotoluene	91	14.415	14.413	(0.919)	1201271	52.6215	52.6	
	84	1,2,3-Trichloropropane	75	14.493	14.492	(0.924)	338148	44.4952	44.5	
	85	4-Chlorotoluene	91	14.665	14.664	(0.935)	1269054	53.1846	53.2	
	86	tert-Butylbenzene	119	14.958	14.957	(0.954)	1259309	50.4920	50.5	
	87	Pentachloroethane	117	14.987	14.985	(0.955)	253079	42.8556	42.8	
	88	1,2,4-Trimethylbenzene	105	15.065	15.064	(0.960)	1342652	50.3305	50.3	
	89	P-Isopropyltoluene	119	15.458	15.457	(0.985)	1418554	53.9928	54.0	
	90	1,3-Dichlorobenzene	146	15.566	15.572	(0.992)	651527	51.5633	51.6	
*	91	1,4-Dichlorobenzene-D4	152	15.687	15.686	(1.000)	749009	50.0000		
	92	1,4-Dichlorobenzene	146	15.709	15.708	(1.001)	660401	47.2444	47.2	
	93	N-Butylbenzene	91	16.138	16.137	(1.029)	1609819	52.4051	52.4	
	94	sec-Butylbenzene	105	15.230	15.229	(0.971)	1766386	53.7174	53.7	
	95	1,2-Dichlorobenzene	146	16.388	16.387	(1.045)	597448	51.4057	51.4	
	96	1,2-Dibromo-3-Chloropropane	75	17.747	17.745	(1.131)	63754	42.3876	42.4	
	97	1,3,5-Trichlorobenzene	180	17.804	17.803	(1.135)	391626	42.4339	42.4	
	98	Hexachlorobutadiene	225	18.905	18.904	(1.205)	214692	51.8835	51.9	
	99	1,2,4-Trichlorobenzene	180	18.948	18.947	(1.208)	317372	42.7165	42.7	
	100	1,2,3-Trimethylbenzene	105	15.752	15.750	(1.004)	1168449	43.3223	43.3	
	101	Naphthalene	128	19.534	19.533	(1.245)	604245	36.0855	36.1	
	102	1,2,3-Trichlorobenzene	180	19.870	19.869	(1.267)	206169	34.8535	34.8	
	103	Methyl Acetate	43	5.141	5.133	(0.629)	211651	33.8456	33.8(R)	
	104	Methylcyclohexane	83	8.773	8.772	(1.073)	479036	44.2456	44.2	
M	153	Total Alkylbenzenes	100				10692111	362.688	363	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
Data File: \\target_server\gg\chem\gcms-c.i\C112213.b\C4418.D
Date : 22-NOV-2013 08:59
Client ID: WG134916-LCS
Sample Info: WG134916-1,WE40-1
Instrument: gcms-c.i
-Chloromethane (2.303)
-Vinyl Chloride (2.403)
-Bromomethane (2.818)
-Chloroethane (2.975)
-Trichlorofluoromethane (3.161)
-Diethyl Ether (3.604)
-1,1-Dichloroethene (3.883)+
-Iodomethane (4.090)
-Acrolein (4.412)
-Allyl Chloride (4.634)
-Methylene Chloride (4.812)
-Acetone (4.913)
-trans-1,2-Dichloroethene (5.091)+
-Methyl tert-butyl ether (5.291)
-Tertiary-butyl alcohol (5.499)
-Acetonitrile (5.699)
-Di-isopropyl ether (5.942)
-Chloroprene (6.071)+
-Acrylonitrile (6.200)
-Ethyl tertiary-butyl ethe (6.507)+
-cis-1,2-Dichloroethene (6.907)
-2,2-Dichloropropane (7.068)
-Bromochloromethane (7.179)+
-Chloroform (7.301)
-Carbon Tetrachloride (7.465)+
-1,1,1-Trichloroethane (7.565)
-2-Butanone (7.730)
-Propionitrile (8.051)+
-Pentafluorobenzene (8.180)+
-Isobutyl Alcohol (8.380)+
-Trichloroethene (8.781)+
-Methyl Methacrylate (9.696)+
-2-Chloroethylvinylether (10.175)
-cis-1,3-Dichloropropene (10.239)
-Toluene-D8 (10.454)
-Toluene (10.511)
-1,1-Dichloropropene (10.962)+
-Ethyl Methacrylate (11.190)+
-Dibromochloromethane (11.405)
-1,3-Dichloropropane (11.526)
-1,2-Dibromoethane (11.698)
-2-Hexanone (11.977)
-1,1,1,2-Tetrachloroethane (12.442)
Chlorobenzene-D5 (12.334)+
m+p-Xylenes (12.585)
-o-Xylene (13.157)
-Styrene (13.228)+
-Isopropylbenzene (13.593)
-P-Bromofluorobenzene (13.993)
-1,1,2,2-Tetrachloroethane (14.293)
-2-Chlorotoluene (14.415)
-1,3,5-Trimethylbenzene (14.479)+
-trans-1,4-Dichloro-2-Bute (14.598)
-4-Chlorotoluene (14.665)
-tert-Butylbenzene (14.950)+
-1,2,4-Trimethylbenzene (15.066)
-sec-Butylbenzene (15.230)
-P-Isopropyltoluene (15.459)
-1,3-Dichlorobenzene (15.568)
-1,4-Dichlorobenzene-D4 (15.688)+
-1,2-Dichloroethylene (tot (16.080)
-N-Butylbenzene (16.138)
-1,2-Dichlorobenzene (16.388)
-1,2-Dibromo-3-Chloroprop (17.347)
-1,3,5-Trichlorobenzene (17.804)
-Hexachlorobutadiene (18.905)+
-Naphthalene (19.535)
-1,2,3-Trichlorobenzene (19.871)
-Xylenes (total) (21.380)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG134993-1
Client ID: LCS
Project:
SDG: WE40-1
LCS File ID: C4445.D

Sample Date:
Received Date:
Extract Date: 23-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG134993

Analysis Date: 23-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Benzene	102.	50.0	50.8	ug/L	80-120
Ethylbenzene	98.0	50.0	49.0	ug/L	75-125
Methyl tert-butyl Ether	93.8	100.	93.8	ug/L	65-125
Toluene	99.2	50.0	49.6	ug/L	75-120
Xylenes (total)	106.	150.	159.	ug/L	89-116
o-Xylene	110.	50.0	55.2	ug/L	80-120
M+P-Xylenes	104.	100.	104.	ug/L	75-130
P-Bromofluorobenzene	91.0				75-120
Toluene-d8	93.3				85-120
1,2-Dichloroethane-d4	86.3				70-120
Dibromofluoromethane	86.1				85-115

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D
Report Date: 02-Dec-2013 12:10

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D
Lab Smp Id: WG134993-1 Client Smp ID: WG134993-LCS
Inj Date : 23-NOV-2013 08:57
Operator : REC Inst ID: gcms-c.i
Smp Info : WG134993-1,WE40-1
Misc Info : WG134993,WG134365-4,SG9044-1
Comment : SW846 5030,AQ
Method : \\Target_server\gg\chem\gcms-c.i\C112313.b\C826A90.m
Meth Date : 02-Dec-2013 12:06 gcms-c.i Quant Type: ISTD
Cal Date : 13-NOV-2013 12:38 Cal File: C4233.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.052	2.051	(0.251)	281550	28.4404	28.4	
2	Chloromethane	50	2.302	2.301	(0.281)	474821	35.6891	35.7	
3	Vinyl chloride	62	2.402	2.401	(0.294)	382713	38.7029	38.7	
4	Bromomethane	94	2.817	2.816	(0.344)	225008	43.4957	43.5	
5	Chloroethane	64	2.974	2.980	(0.364)	92526	17.5489	17.5(R)	
6	Trichlorofluoromethane	101	3.160	3.166	(0.386)	462488	44.9746	45.0	
7	Diethyl Ether	59	3.604	3.602	(0.441)	229596	38.0892	38.1(R)	
8	Tertiary-butyl alcohol	59	5.498	5.490	(0.672)	141742	211.258	211	
9	1,1-Dichloroethene	96	3.875	3.881	(0.474)	295025	57.0567	57.0	
10	Carbon Disulfide	76	3.911	3.917	(0.478)	1055844	52.7942	52.8	
11	Freon-113	151	3.947	3.946	(0.483)	129704	39.6142	39.6	
12	Iodomethane	142	4.090	4.089	(0.500)	344372	68.9031	68.9	
13	Acrolein	56	4.411	4.410	(0.539)	212059	171.722	172	
14	Methylene Chloride	84	4.805	4.811	(0.587)	407507	49.8541	49.8	
15	Acetone	43	4.912	4.904	(0.601)	144235	57.2375	57.2	
16	Isobutyl Alcohol	43	8.380	8.379	(1.024)	255559	907.222	907	
17	trans-1,2-Dichloroethene	96	5.091	5.090	(0.622)	349282	51.2758	51.3	
18	Allyl Chloride	41	4.626	4.632	(0.566)	477918	37.1351	37.1(R)	
19	Methyl tert-butyl ether	73	5.291	5.290	(0.647)	1673344	93.7713	93.8	
20	Acetonitrile	39	5.698	5.697	(0.697)	101714	411.530	412	
21	Di-isopropyl ether	45	5.934	5.940	(0.726)	1028788	40.1777	40.2(R)	
22	Chloroprene	53	6.070	6.069	(0.742)	412626	38.8951	38.9	
23	Propionitrile	54	8.101	8.106	(0.990)	475308	404.169	404	
24	Methacrylonitrile	41	8.130	8.128	(0.994)	1958173	371.636	372(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D
Report Date: 02-Dec-2013 12:10

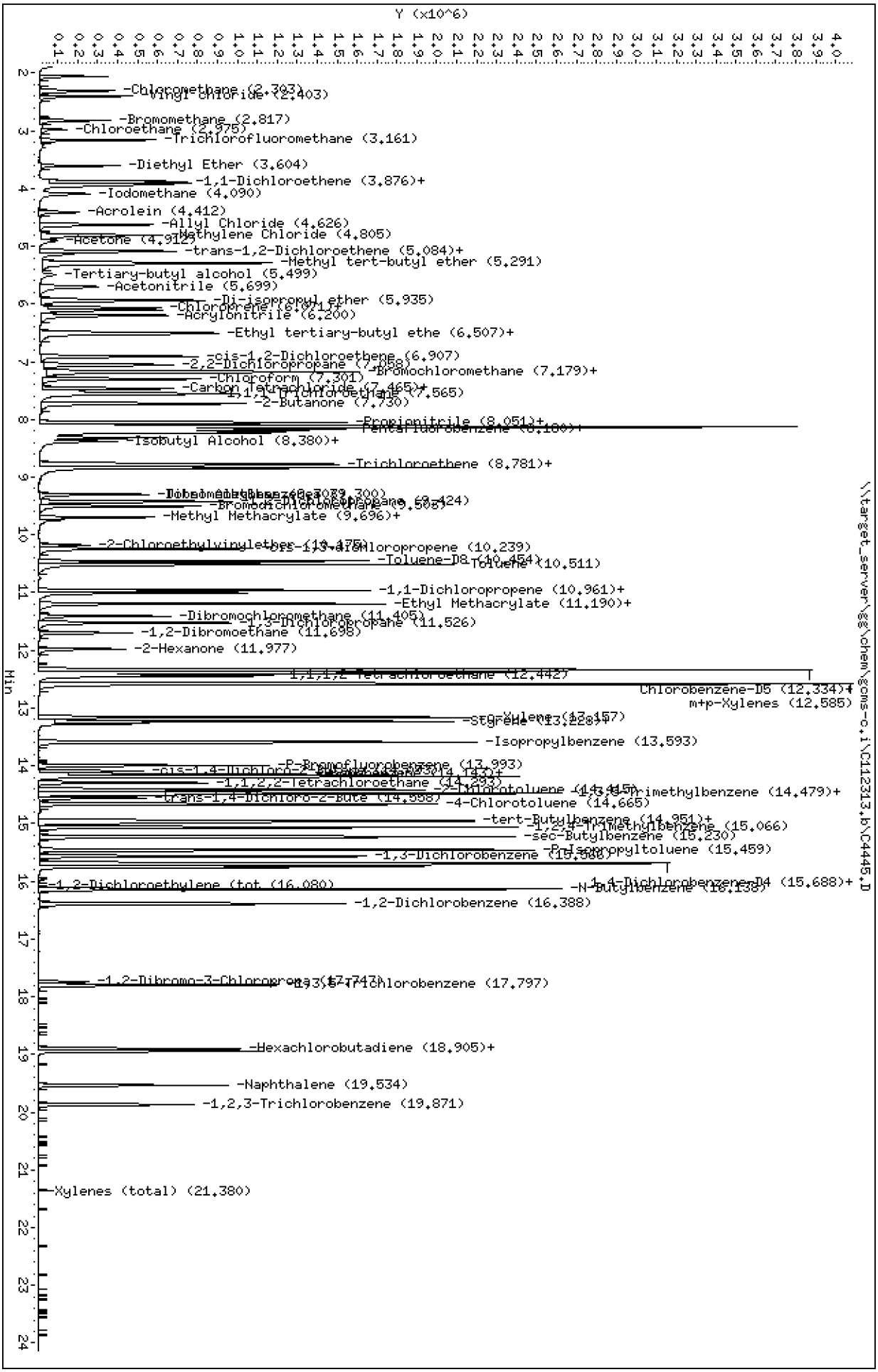
							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.106	6.105	(0.747)	656015	48.9259	48.9	
	26 Acrylonitrile	52	6.199	6.198	(0.758)	495528	193.888	194	
	27 Ethyl tertiary-butyl ether	59	6.499	6.498	(0.795)	825485	40.5832	40.6(R)	
	28 Vinyl Acetate	43	6.521	6.520	(0.738)	891942	61.3165	61.3	
	29 cis-1,2-Dichloroethene	96	6.907	6.913	(0.844)	373385	48.8278	48.8	
M	30 1,2-Dichloroethylene (total)	96				722667	100.104	100	
	31 Methyl Methacrylate	41	9.695	9.694	(1.097)	279123	42.7467	42.7	
	32 2,2-Dichloropropane	77	7.057	7.056	(0.863)	530884	52.8730	52.9	
	33 Bromochloromethane	128	7.186	7.185	(0.879)	150178	49.2579	49.2	
	34 Chloroform	83	7.300	7.299	(0.892)	672490	50.1802	50.2	
	35 Carbon Tetrachloride	117	7.465	7.463	(0.845)	465404	54.4775	54.5	
	36 Tetrahydrofuran	42	7.507	7.506	(0.918)	128414	54.2379	54.2	
$	37 Dibromofluoromethane	113	7.543	7.549	(0.922)	283011	43.0630	43.1	
	38 1,1,1-Trichloroethane	97	7.565	7.564	(0.925)	582603	51.4741	51.5	
	39 1,1-Dichloropropene	75	11.004	11.003	(1.245)	555221	53.8504	53.8	
	40 2-Butanone	43	7.722	7.721	(0.944)	202799	55.6628	55.7	
	41 Benzene	78	8.051	8.057	(0.911)	1414740	50.8485	50.8	
*	42 Pentafluorobenzene	168	8.180	8.178	(1.000)	861671	50.0000		
	43 Cyclohexane	56	7.171	7.170	(0.877)	657115	55.3638	55.4	
	44 Ethyl Methacrylate	69	11.190	11.189	(1.266)	396205	44.1025	44.1	
$	45 1,2-Dichloroethane-D4	65	8.230	8.228	(1.006)	307212	43.1371	43.1	
	46 Tertiary-amyl methyl ether	73	8.215	8.214	(1.004)	713229	40.5652	40.6	
	47 1,2-Dichloroethane	62	8.315	8.314	(0.941)	448764	52.8227	52.8	
	48 Trichloroethene	95	8.787	8.786	(0.994)	356378	53.5225	53.5	
*	49 1,4-Difluorobenzene	114	8.837	8.836	(1.000)	1510166	50.0000		
	50 Dibromomethane	93	9.302	9.301	(1.053)	220090	47.6974	47.7	
	51 1,2-Dichloropropane	63	9.424	9.423	(1.066)	369836	51.5998	51.6	
	52 Bromodichloromethane	83	9.502	9.501	(1.075)	528030	52.8698	52.9	
	53 cis-1,3-dichloropropene	75	10.239	10.245	(1.159)	608595	49.4941	49.5	
	54 1,4-Dioxane	88	9.738	9.737	(1.102)	81735	774.543	774	
$	55 Toluene-D8	98	10.453	10.452	(1.183)	1029538	46.6619	46.7	
	56 2-Chloroethylvinylether	63	10.174	10.181	(1.151)	102362	35.0627	35.1	
	57 Toluene	92	10.511	10.509	(1.189)	858584	49.6098	49.6	
	58 4-methyl-2-pentanone	43	10.961	10.960	(1.240)	399345	59.5333	59.5	
	59 Tetrachloroethene	164	10.961	10.960	(0.889)	255389	51.1518	51.2	
	60 trans-1,3-Dichloropropene	75	11.004	11.003	(1.245)	555221	53.8504	53.8	
	61 1,1,2-Trichloroethane	83	11.190	11.196	(1.266)	287769	51.0716	51.1	
	62 Dibromochloromethane	129	11.404	11.410	(0.925)	370207	53.0916	53.1	
	63 1,3-Dichloropropane	76	11.526	11.525	(0.934)	616364	50.0518	50.0	
	64 1,2-Dibromoethane	107	11.697	11.696	(1.324)	341729	50.7550	50.8	
	65 2-Hexanone	43	11.976	11.975	(0.971)	299848	59.1370	59.1	
*	66 Chlorobenzene-D5	117	12.334	12.340	(1.000)	1472327	50.0000		
	67 Chlorobenzene	112	12.362	12.361	(1.002)	907470	52.5981	52.6	
	152 1-Chlorohexane	91	12.327	12.326	(0.999)	568394	46.8738	46.9	
	68 Ethylbenzene	106	12.391	12.390	(1.005)	504259	49.0003	49.0	
	69 1,1,1,2-Tetrachloroethane	131	12.441	12.440	(1.009)	340787	51.5245	51.5	
M	70 Xylenes (total)	106				1860410	158.979	159	
	71 m+p-Xylenes	106	12.584	12.583	(1.020)	1240870	103.809	104	
	72 o-Xylene	106	13.156	13.155	(1.067)	619540	55.1698	55.2	
	73 Styrene	104	13.228	13.226	(1.072)	1039604	50.9456	50.9	
	74 Bromoform	173	13.270	13.269	(1.076)	238394	52.2118	52.2	
	75 Isopropylbenzene	105	13.592	13.591	(0.866)	1626210	50.4942	50.5	
$	76 P-Bromofluorobenzene	95	13.993	13.992	(1.583)	468741	45.4883	45.5	
	77 cis-1,4-Dichloro-2-Butene	53	14.093	14.092	(0.898)	125081	39.8433	39.8	

Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D
Report Date: 02-Dec-2013 12:10

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.558	14.556	(0.928)	116343	41.2094	41.2	
	79 Bromobenzene	156	14.150	14.149	(0.902)	373188	47.9052	47.9	
	80 N-Propylbenzene	91	14.186	14.185	(0.904)	2119691	50.6754	50.7	
	81 1,1,2,2-Tetrachloroethane	83	14.293	14.292	(0.911)	493571	46.0996	46.1	
	82 1,3,5-Trimethylbenzene	105	14.479	14.478	(0.923)	1408183	46.5143	46.5	
	83 2-Chlorotoluene	91	14.415	14.413	(0.919)	1294746	50.5610	50.6	
	84 1,2,3-Trichloropropane	75	14.493	14.492	(0.924)	381954	44.8050	44.8	
	85 4-Chlorotoluene	91	14.665	14.664	(0.935)	1375916	51.4051	51.4	
	86 tert-Butylbenzene	119	14.958	14.957	(0.954)	1369346	48.9454	48.9	
	87 Pentachloroethane	117	14.987	14.985	(0.955)	274849	41.4910	41.5	
	88 1,2,4-Trimethylbenzene	105	15.065	15.064	(0.960)	1452729	48.5469	48.5	
	89 P-Isopropyltoluene	119	15.458	15.457	(0.985)	1546175	52.4635	52.5	
	90 1,3-Dichlorobenzene	146	15.566	15.572	(0.992)	725849	51.2110	51.2	
*	91 1,4-Dichlorobenzene-D4	152	15.687	15.686	(1.000)	840191	50.0000		
	92 1,4-Dichlorobenzene	146	15.709	15.708	(1.001)	735676	46.9178	46.9	
	93 N-Butylbenzene	91	16.138	16.137	(1.029)	1705318	49.4893	49.5	
	94 sec-Butylbenzene	105	15.230	15.229	(0.971)	1910970	51.8074	51.8	
	95 1,2-Dichlorobenzene	146	16.388	16.387	(1.045)	671484	51.5058	51.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.746	17.745	(1.131)	78986	46.8155	46.8	
	97 1,3,5-Trichlorobenzene	180	17.804	17.803	(1.135)	419785	40.5487	40.5	
	98 Hexachlorobutadiene	225	18.905	18.904	(1.205)	214593	46.2315	46.2	
	99 1,2,4-Trichlorobenzene	180	18.941	18.947	(1.207)	375721	45.0818	45.1	
	100 1,2,3-Trimethylbenzene	105	15.752	15.750	(1.004)	1232372	40.7336	40.7(R)	
	101 Naphthalene	128	19.534	19.533	(1.245)	814855	43.3819	43.4	
	102 1,2,3-Trichlorobenzene	180	19.870	19.869	(1.267)	261295	39.7470	39.7	
	103 Methyl Acetate	43	5.141	5.133	(0.629)	252764	36.1678	36.2	
	104 Methylcyclohexane	83	8.766	8.772	(1.072)	496851	41.0632	41.1	
M	153 Total Alkylbenzenes	100				11512412	348.442	348	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D
Date : 23-NOV-2013 08:57
Client ID: WG134993-LCS
Sample Info: WG134993-1,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-c.i\C112313.b\C4445.D

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG135258-1
Client ID: LCS
Project:
SDG: WE40-1
LCS File ID: D6918.D

Sample Date:
Received Date:
Extract Date: 27-NOV-13
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG135258

Analysis Date: 27-NOV-13
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 02-DEC-13

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Benzene	114.	50.0	56.8	ug/L	80-120
Ethylbenzene	106.	50.0	52.9	ug/L	75-125
Methyl tert-butyl Ether	* 125.	100.	125.	ug/L	65-125
Toluene	106.	50.0	53.1	ug/L	75-120
Xylenes (total)	104.	150.	156.	ug/L	89-116
o-Xylene	102.	50.0	51.2	ug/L	80-120
M+P-Xylenes	105.	100.	105.	ug/L	75-130
P-Bromofluorobenzene	102.				75-120
Toluene-d8	99.4				85-120
1,2-Dichloroethane-d4	83.1				70-120
Dibromofluoromethane	88.5				85-115

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6918.D
Report Date: 02-Dec-2013 12:21

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D112713.b\D6918.D
Lab Smp Id: WG135258-1 Client Smp ID: WG135258-LCS
Inj Date : 27-NOV-2013 10:44
Operator : REC Inst ID: gcms-d.i
Smp Info : WG135258-1,WE40-1
Misc Info : WG135258,WG134394-4,SG9180-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D112713.b\D826A38.m
Meth Date : 02-Dec-2013 12:14 gcms-d.i Quant Type: ISTD
Cal Date : 19-NOV-2013 12:52 Cal File: D6755.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.071	2.073	(0.257)	507955	48.7351	48.7	
2	Chloromethane	50	2.307	2.303	(0.287)	656544	47.6976	47.7	
3	Vinyl chloride	62	2.407	2.403	(0.299)	580956	52.3253	52.3	
4	Bromomethane	94	2.800	2.804	(0.348)	258747	50.1673	50.2	
5	Chloroethane	64	2.965	2.961	(0.368)	337222	55.1581	55.2	
6	Trichlorofluoromethane	101	3.144	3.140	(0.391)	681027	50.1626	50.2	
7	Diethyl Ether	59	3.551	3.547	(0.441)	383512	57.3440	57.3	
8	Tertiary-butyl alcohol	59	5.346	5.342	(0.664)	220746	320.265	320	
9	1,1-Dichloroethene	96	3.823	3.819	(0.475)	388372	64.6496	64.6	
10	Carbon Disulfide	76	3.859	3.862	(0.479)	1602181	52.8662	52.9	
11	Freon-113	151	3.887	3.890	(0.483)	239637	52.3811	52.4	
12	Iodomethane	142	4.023	4.019	(0.500)	359268	56.5639	56.6	
13	Acrolein	56	4.302	4.304	(0.535)	454744	326.346	326	
14	Methylene Chloride	84	4.695	4.691	(0.583)	529298	51.9893	52.0	
15	Acetone	43	4.774	4.770	(0.593)	188891	64.2311	64.2	
16	Isobutyl Alcohol	43	8.242	8.238	(1.024)	443329	1280.54	1280	
17	trans-1,2-Dichloroethene	96	4.974	4.970	(0.618)	435786	56.8751	56.9	
18	Allyl Chloride	41	4.531	4.527	(0.563)	693965	65.4796	65.5(R)	
19	Methyl tert-butyl ether	73	5.174	5.170	(0.643)	2888157	125.129	125(R)	
20	Acetonitrile	39	5.532	5.535	(0.687)	169798	771.778	772(R)	
21	Di-isopropyl ether	45	5.818	5.821	(0.723)	1567625	61.9167	61.9(R)	
22	Chloroprene	53	5.947	5.942	(0.739)	628427	61.2350	61.2	
23	Propionitrile	54	7.949	7.945	(0.988)	938839	715.715	716(R)	
24	Methacrylonitrile	41	7.984	7.980	(0.992)	3432897	583.974	584	

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6918.D
Report Date: 02-Dec-2013 12:21

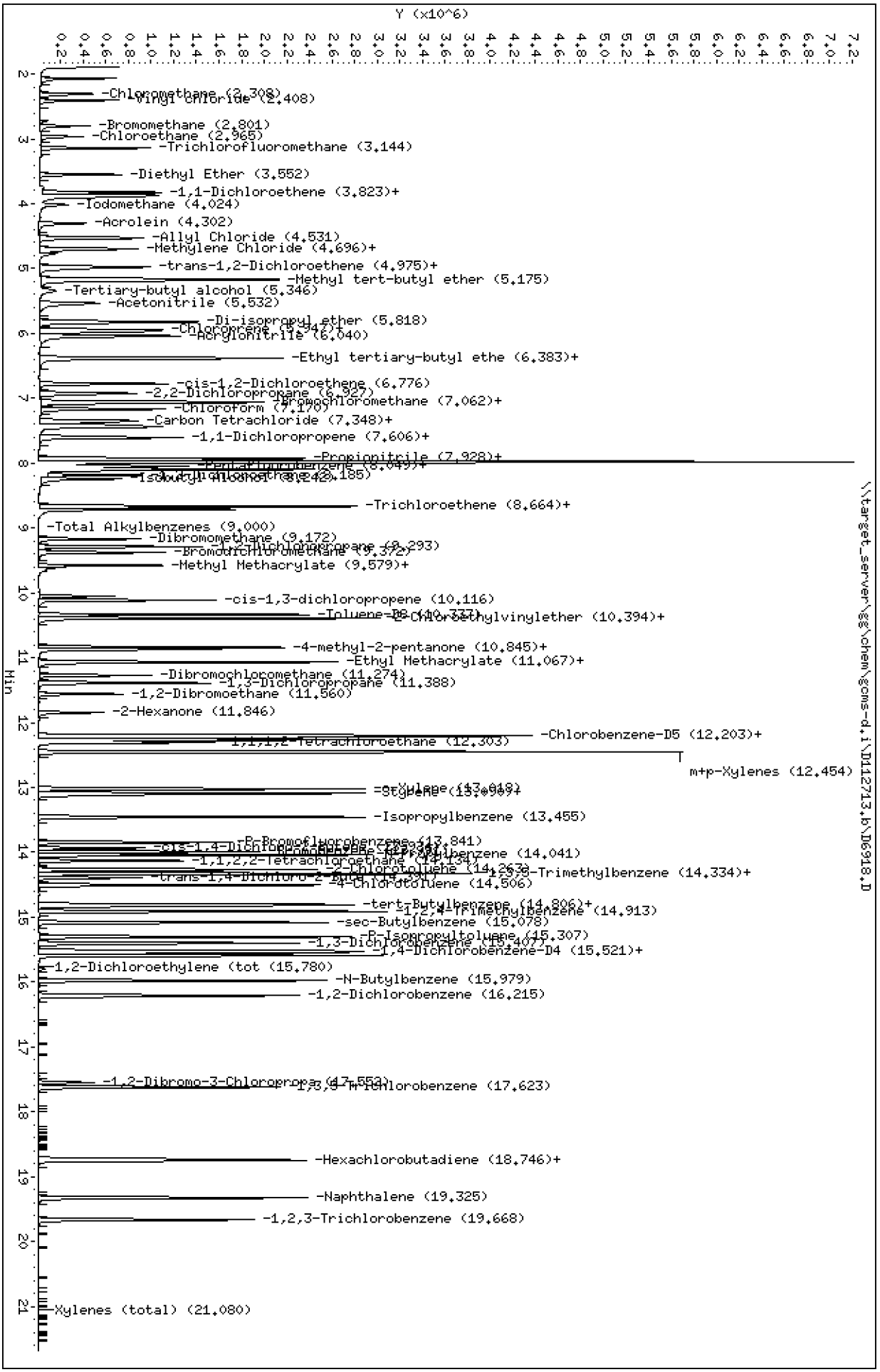
			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.975	5.971	(0.742)	855538	57.9407	57.9	
	26	Acrylonitrile	52	6.039	6.035	(0.750)	963051	327.716	328(R)	
	27	Ethyl tertiary-butyl ether	59	6.383	6.379	(0.793)	1419443	61.1969	61.2(R)	
	28	Vinyl Acetate	43	6.383	6.386	(0.733)	1277360	63.8325	63.8	
	29	cis-1,2-Dichloroethene	96	6.776	6.772	(0.842)	492540	58.3963	58.4	
M	30	1,2-Dichloroethylene (total)	96				928326	115.271	115	
	31	Methyl Methacrylate	41	9.572	9.575	(1.098)	483927	64.0895	64.1(R)	
	32	2,2-Dichloropropane	77	6.926	6.929	(0.861)	604596	48.2294	48.2	
	33	Bromochloromethane	128	7.048	7.051	(0.876)	221426	58.5519	58.6	
	34	Chloroform	83	7.169	7.165	(0.891)	826588	55.8148	55.8	
	35	Carbon Tetrachloride	117	7.348	7.351	(0.843)	551713	48.8202	48.8	
	36	Tetrahydrofuran	42	7.377	7.373	(0.916)	179872	59.0981	59.1	
$	37	Dibromofluoromethane	113	7.412	7.408	(0.921)	351490	44.2601	44.3	
	38	1,1,1-Trichloroethane	97	7.441	7.437	(0.924)	692377	50.6049	50.6	
	39	1,1-Dichloropropene	75	7.605	7.608	(0.873)	619821	51.2393	51.2	
	40	2-Butanone	43	7.584	7.573	(0.942)	277320	55.6117	55.6	
	41	Benzene	78	7.927	7.923	(0.910)	1925029	56.8591	56.8	
*	42	Pentafluorobenzene	168	8.049	8.052	(1.000)	782118	50.0000		
	43	Cyclohexane	56	7.062	7.065	(0.877)	799933	60.6941	60.7	
	44	Ethyl Methacrylate	69	11.073	11.069	(1.271)	704453	64.7948	64.8(R)	
$	45	1,2-Dichloroethane-D4	65	8.092	8.095	(1.005)	459320	41.5427	41.5	
	46	Tertiary-amyl methyl ether	73	8.099	8.102	(1.006)	1279886	60.4748	60.5	
	47	1,2-Dichloroethane	62	8.184	8.180	(0.939)	651918	50.5040	50.5	
	48	Trichloroethene	95	8.671	8.667	(0.995)	438972	54.1003	54.1	
*	49	1,4-Difluorobenzene	114	8.714	8.710	(1.000)	1222853	50.0000		
	50	Dibromomethane	93	9.171	9.167	(1.053)	302819	52.3541	52.4	
	51	1,2-Dichloropropane	63	9.293	9.289	(1.066)	488223	57.6570	57.6	
	52	Bromodichloromethane	83	9.371	9.375	(1.075)	668906	51.5951	51.6	
	53	cis-1,3-dichloropropene	75	10.115	10.118	(1.161)	801663	49.5499	49.5	
	54	1,4-Dioxane	88	9.615	9.618	(1.103)	115388	485.470	485	
$	55	Toluene-D8	98	10.337	10.333	(1.186)	1396802	49.6976	49.7	
	56	2-Chloroethylvinylether	63	10.394	10.390	(1.193)	148617	46.1068	46.1	
	57	Toluene	92	10.394	10.390	(1.193)	1189127	53.1262	53.1	
	58	4-methyl-2-pentanone	43	10.830	10.826	(1.243)	538275	50.1973	50.2	
	59	Tetrachloroethene	164	10.844	10.840	(0.889)	373943	52.8109	52.8	
	60	trans-1,3-Dichloropropene	75	10.873	10.876	(1.248)	727076	50.1745	50.2	
	61	1,1,2-Trichloroethane	83	11.059	11.062	(1.269)	385256	54.8579	54.8	
	62	Dibromochloromethane	129	11.273	11.277	(0.924)	474114	52.6873	52.7	
	63	1,3-Dichloropropane	76	11.388	11.384	(0.933)	829964	52.6916	52.7	
	64	1,2-Dibromoethane	107	11.559	11.555	(1.327)	464016	55.3094	55.3	
	65	2-Hexanone	43	11.845	11.841	(0.971)	371946	47.6667	47.7	
*	66	Chlorobenzene-D5	117	12.203	12.199	(1.000)	1175967	50.0000		
	67	Chlorobenzene	112	12.224	12.220	(1.002)	1224464	53.9692	54.0	
	152	1-Chlorohexane	91	12.203	12.199	(1.000)	619300	52.4223	52.4	
	68	Ethylbenzene	106	12.260	12.263	(1.005)	666400	52.8832	52.9	
	69	1,1,1,2-Tetrachloroethane	131	12.303	12.306	(1.008)	430540	51.5566	51.6	
M	70	Xylenes (total)	106				2462204	156.560	156	
	71	m+p-Xylenes	106	12.453	12.449	(1.021)	1654510	105.381	105	
	72	o-Xylene	106	13.018	13.021	(1.067)	807694	51.1788	51.2	
	73	Styrene	104	13.089	13.093	(1.073)	1376715	48.9831	49.0	
	74	Bromoform	173	13.118	13.121	(1.075)	350556	44.9210	44.9	
	75	Isopropylbenzene	105	13.454	13.450	(0.867)	1988860	49.8847	49.9	
$	76	P-Bromofluorobenzene	95	13.840	13.843	(1.588)	585415	51.2585	51.2	
	77	cis-1,4-Dichloro-2-Butene	53	13.933	13.936	(0.898)	202514	59.3703	59.4	

Data File: \\target_server\gg\chem\gcms-d.i\D112713.b\D6918.D
Report Date: 02-Dec-2013 12:21

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.391	14.394	(0.927)	189881	56.2086	56.2	
	79	Bromobenzene	156	13.990	13.994	(0.901)	552955	54.2628	54.3	
	80	N-Propylbenzene	91	14.040	14.044	(0.905)	2388442	49.4657	49.5	
	81	1,1,2,2-Tetrachloroethane	83	14.133	14.129	(0.911)	673355	50.4609	50.5	
	82	1,3,5-Trimethylbenzene	105	14.334	14.330	(0.924)	1666531	43.5740	43.6	
	83	2-Chlorotoluene	91	14.262	14.265	(0.919)	1490745	49.4521	49.4	
	84	1,2,3-Trichloropropane	75	14.326	14.330	(0.923)	553329	50.7220	50.7	
	85	4-Chlorotoluene	91	14.505	14.508	(0.935)	1589783	50.2132	50.2	
	86	tert-Butylbenzene	119	14.806	14.809	(0.954)	1567776	53.1176	53.1	
	87	Pentachloroethane	117	14.827	14.830	(0.955)	348085	51.5022	51.5	
	88	1,2,4-Trimethylbenzene	105	14.913	14.916	(0.961)	1803186	44.5488	44.5	
	89	P-Isopropyltoluene	119	15.306	15.309	(0.986)	1698356	47.1705	47.2	
	90	1,3-Dichlorobenzene	146	15.406	15.402	(0.993)	1017580	56.0505	56.0	
*	91	1,4-Dichlorobenzene-D4	152	15.521	15.517	(1.000)	742549	50.0000		
	92	1,4-Dichlorobenzene	146	15.542	15.545	(1.001)	1031835	48.4320	48.4	
	93	N-Butylbenzene	91	15.978	15.974	(1.029)	1542636	42.6722	42.7	
	94	sec-Butylbenzene	105	15.077	15.080	(0.971)	2000027	47.8089	47.8	
	95	1,2-Dichlorobenzene	146	16.214	16.210	(1.045)	1023952	55.8897	55.9	
	96	1,2-Dibromo-3-Chloropropane	75	17.551	17.547	(1.131)	136418	47.9725	48.0	
	97	1,3,5-Trichlorobenzene	180	17.623	17.619	(1.135)	776661	50.4357	50.4	
	98	Hexachlorobutadiene	225	18.731	18.727	(1.207)	284161	43.6479	43.6	
	99	1,2,4-Trichlorobenzene	180	18.752	18.748	(1.208)	746048	53.1435	53.1	
	100	1,2,3-Trimethylbenzene	105	15.592	15.588	(1.005)	1877820	52.6570	52.6	
	101	Naphthalene	128	19.332	19.328	(1.246)	2117827	41.0803	41.1	
	102	1,2,3-Trichlorobenzene	180	19.668	19.664	(1.267)	709093	50.6374	50.6	
	103	Methyl Acetate	43	5.003	4.999	(0.622)	440104	54.7136	54.7	
	104	Methylcyclohexane	83	8.664	8.660	(1.076)	618191	55.7438	55.7	
M	153	Total Alkylbenzenes	100				12666954	328.358	328	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.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Date : 27-NOV-2013 10:44
Client ID: WG135258-LCS
Sample Info: WG135258-1,WE40-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D112713.b\D6918.D
Y (x10^6)
Min
-Chloromethane (2.308)
-Vinyl Chloride (2.408)
-Bromomethane (2.801)
-Chloroethane (2.965)
-Trichlorofluoromethane (3.144)
-Diethyl Ether (3.552)
-1,1-Dichloroethene (3.823)+
-Iodomethane (4.024)
-Acrolein (4.302)
-Allyl Chloride (4.531)
-Methylene Chloride (4.696)+
-trans-1,2-Dichloroethene (4.975)+
-Methyl tert-butyl ether (5.175)
-Tertiary-butyl alcohol (5.346)
-Acetonitrile (5.532)
-Di-isopropyl ether (5.818)
-Chloroprene (5.944)+
-Acrylonitrile (6.040)
-Ethyl tertiary-butyl ethe (6.383)+
-cis-1,2-Dichloroethene (6.776)
-2,2-Dichloropropane (6.927)
-Bromochloromethane (7.062)+
-Chloroform (7.170)
-Carbon Tetrachloride (7.348)+
-1,1-Dichloropropene (7.606)+
-Propionitrile (7.928)+
-Pentafluorobenzene (8.049)+
-Isobutyl alcohol (8.185)
-Trichloroethene (8.664)+
-Total Alkylbenzenes (9.000)
-Dibromomethane (9.172)
-1,2-Dichloropropane (9.293)
-Bromodichloromethane (9.372)
-Methyl Methacrylate (9.579)+
-cis-1,3-dichloropropene (10.116)
-Toluene-D8 (10.337)
-2-Chloroethylvinylether (10.394)+
-4-methyl-2-pentanone (10.845)+
-Ethyl Methacrylate (11.067)+
-Dibromochloromethane (11.274)
-1,3-Dichloropropane (11.388)
-1,2-Dibromoethane (11.560)
-2-Hexanone (11.846)
-Chlorobenzene-D5 (12.203)+
1,1,1,2-Tetrachloroethane (12.303)
m+p-Xylenes (12.454)
-Xylene (13.048)
-Styrene (13.096)+
-Isopropylbenzene (13.455)
-Bromofluorobenzene (13.841)
-cis-1,4-Dichloro-2-Butene (13.941)
-Bromobenzene (14.041)
-1,1,2,2-Tetrachloroethane (14.134)+
-n-Propylbenzene (14.263)
-1,3,5-Trimethylbenzene (14.334)+
-trans-1,4-Dichloro-2-Butene (14.441)
-2-Chlorotoluene (14.506)
-4-Chlorotoluene (14.506)
-tert-Butylbenzene (14.806)+
-1,2,4-Trimethylbenzene (14.913)
-sec-Butylbenzene (15.078)
-p-Isopropyltoluene (15.307)
-1,3-Dichlorobenzene (15.407)
-1,4-Dichlorobenzene-D4 (15.521)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.979)
-1,2-Dichlorobenzene (16.215)
-1,2-Dibromo-3-Chloropropa (17.552)
-1,3,5-Trichlorobenzene (17.623)
-Hexachlorobutadiene (18.746)+
-Naphthalene (19.325)
-1,2,3-Trichlorobenzene (19.668)
-Xylenes (total) (21.080)

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 11/13/13

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -10 -10	CB699	1	-1	V0APFBAQ							Y	REC		
VST B200C13A ARL LOT -6	C4228A	1	1	C826A90							Y			WG134365-6
100C13A -5	29A	1	2								Y			-5
050C13A -4	30A	1	3								Y			-4
020C13A -3	31A	1	4								Y			-3
005C13A -2	32A	1	5								Y			-2
001C13A -1	33A	1	6								Y			-1
LCSA -8	34	1	7								Y			IND(A) -7
VBLKA	35	1	8								N			
VBLKB	36	1	9								N			
VBLKC -9	37	1	10								Y			hexachloroethane
SG87364-10 A	38	1	11		X				X		Y		<2	
-11 A	39	1	12								Y		<2	
SG88819-3 A	40	1	13					X			N			Inst. fail Pt Rinse 40
SG88785-4 A	41	1	14								N			Rinse 41
-1 A	42	1	15								N			
-2 A	43	1	16								N			
-3 A	44	1	17								N			
SG88819-1 A	45	1	18								N			
-2 A	46	1	19								N			
SG88769-3MS -11 B	47	1	20						X		N			
-3MSD -12 C	48	1	21								N			
Rinse	49	1	22								N			
Rinse	50	1	23								N			
LCS@20A WG134372-8	51	1	24								N			IND(A) WG134372-7
LCS@20B	52	1	25								N			

STANDARD	CODE
BFB	V9095
CAL. STD.	V9133 V9136
LCS/MS MIX	V912
EXTRAS MIX	V9123

STANDARD	CODE
IS MIX	V9134
SS MIX	V9131 / V9135

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 0000281

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 11/22/13 7:51

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB706	1	-1	VOABFBAQ							Y	REC		
VSTD050C22A -4	C4417	1	1	C826A90							Y			
LCSA W6134916-1	18	1	2								Y			
LCSD	19	1	3								N			not needed
VBLKA	20	1	4								N			
VBLKD	21	1	5								N			
VBLKC -2	22	1	6								Y			hexane→PAL
MeOHBLK -5	23	1	7								Y			hexane CPAL
SG9044-10DL	24	1	8			X			X		Y			800 uL→40mL
SG8897-5 DL	25	1	9					X			Y			20mL→40mL run 100uL→40
-6DL	26	1	10								Y			run 80mL→40mL
-7DL	27	1	11								Y			run 80 uL→40mL
-8 DL	28	1	12								Y			run 80 mL→40mL
-9 DL	29	1	13								Y			
SG8044-1DL	30	1	14						X		Y			400mL→40mL run 800→40
-2DL	31	1	15								Y			run 800mL→40mL
-3DL	32	1	16								Y			run 800uL→40mL
-4DL	33	1	17								Y			run 800uL→40mL
-5DL	34	1	18								Y			run 800uL→40mL
-6DL	35	1	19								Y			run 800uL→40mL
-7DL	36	1	20								Y			run 800uL→40mL
-8DL	37	1	21								Y			run 800uL→40mL
-9DL	38	1	22								Y			run 800uL→40mL 19:32
Rinse	39	1	23								N			
Rinse	40	1	24								N			
MeOH Rinse	41	1	95								N			

STANDARD	CODE
BFB	V9140
CAL. STD.	V9144 V9143
LCS/MS MIX	V9138
EXTRAS MIX	V9123

STANDARD	CODE
IS MIX	V9134
SS MIX	V9135

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 11/23/13 7:50

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB707	1	-1	VOABFBAQ							Y	REC		
VSTD050C23A -4	C4444	1	1	C826A90							Y			
LCSA WB134993-1	45	1	2								Y			
VBLKA	46	1	3								N			
VBLKB	47	1	4								N			
VBLKC -2	48	1	5								Y			hexy > PQL
MeOHBLK -5	49	1	6								Y			hexy < PQL
SG9044-1DL A	50	1	7			X			X		Y			800uL→40mL
-2DL A	51	1	8								Y			
-3DL A	52	1	9								Y			
-4DL A	53	1	10								Y			
-5DL A	54	1	11								Y			
-6DL A	55	1	12								Y			
-7DL A	56	1	13								Y			
-8DL A	57	1	14								Y			
~~SG8997-5DL~~ SG9044DL A	58	1	15					X	X	11/25/13 RSL	Y			900uL→40mL
SG8997 -6DL A	59	1	16					X			Y			80uL→40mL
-7DL A	60	1	17								Y			
-8DL A	61	1	18								Y			
-10DL A	62	1	19								M			run 800uL→40mL
-11DL A	63	1	20								N			
-12DL A	64	1	21								N			9.42 ✓
-13DL A	65	1	22								N			2017 ooc
Rinse	66	1	23								N			
Rinse	67	1	24								N			
Rinse	68	1	25								N		Z	

STANDARD	CODE
BFB	V9140
CAL. STD.	V9144 V9143
LCS/MS MIX	V9138
EXTRAS MIX	V9123

STANDARD	CODE
IS MIX	V9134
SS MIX	V9135

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 0000283

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 111913 850

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB -4	DB246	1	-1	10a1d0b42							Y	DJP		
VSTD/Rinse	D6749	1	1	28260938							N			WG134694
VSTD200 -6	D6750	1	2								Y			
100 -5	D6751	1	3								Y			
50 -4	D6752	1	4								Y			curve ok
20 -3	D6753	1	5								Y			
5 -2	D6754	1	6								Y			
1 -1	D6755	1	7								Y			
LCS -7	D6756(a)	1	8								Y			(a) -12 into Sequ
LCSD -8	D6757	1	9								Y			
VBLKA	D6758	1	10								N			
VBLKB	D6759	1	11								N			
VBLKC -9	D6760	1	12								Y			
MeOHBLK -10	D6761	1	13					✓			Y			800uL→40mL
SG88446-1DL A	62	1	14	5.51	✓			✓			Y			800uL→40m
-2DL A	63	1	15	4.53							Y			800uL→40m
-3DL A	64	1	16	4.35							Y			400uL→40m
-4DL A	65	1	17	4.68							Y			800uL→40m
-5DL A	66	1	18	5.21							Y			800uL→40m
-5MS A	67	1	19	5.21							Y			
-5MSD A	68	1	20	5.21							Y			2029 ✓
Rinse	69	1	21		✓			✓			N			
Rinse	70	1	22								N			

-13
-14

STANDARD	CODE
BFB	V9140
CAL. STD.	V9144 V9143
LCS/MS MIX	V9138
EXTRAS MIX	V9123

STANDARD	CODE
IS MIX	V9145
SS MIX	V9137

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 0000284

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 11/27/13 8:09

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	DB253	1	-1	V0ABFBAQ							Y	REC	7	
VSTD050027A	D6915	1	1	D826A38							N			
VSTD050027B -4	16	1	2								Y			
LCSA	17	1	3								N			
LCSB WG135258-1	18	1	4								Y			
VBLKA	19	1	5								N			
VBLKB	20	1	6								N			
VBLKC -2	21	1	7								Y			MeCl2 Pal
S69180-10 A	22	1	8		X			X	X		Y		<2	
-1 A	23	1	9								Y		<2	
-2 A	24	1	10								Y		<2	
-3 A	25	1	11								Y		<2	
-4 A	26	1	12								Y		<2	
-5 A	27	1	13								Y		<2	
-6 A	28	1	14								Y		<2	
-7 A	29	1	15								Y		<2	
-8 A	30	1	16								Y		<2	
-9 A	31	1	17								Y		<2	
-11 B	32	1	18								Y		<2	1848
Rinse	33	1	19								N		7	
Rinse	34	1	20								N			
Rinse	35	1	21								N			
Rinse	36	1	22								N			
														RJP 112813

STANDARD	CODE
BFB	V9140
CAL. STD.	V9150 V9149
LCS/MS MIX	V9152
EXTRAS MIX	V9148

STANDARD	CODE
IS MIX	V9145
SS MIX	V9142

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS526

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
11-7-13	DM	76540	33.44			DI / MEOH / NaHSO4	5 / 10		
		76541	33.40	45.42	12.02	DI / MEOH / NaHSO4	5 / 10	SG8888-1 A	
		76542	33.55			DI / MEOH / NaHSO4	5 / 10		
		76543	33.41	39.74	6.33	DI / MEOH / NaHSO4	5 / 10	SG8888-2A	
		76544	33.19	45.21	12.02	DI / MEOH / NaHSO4	5 / 10	SG8888-4 A	
		76545	32.55			DI / MEOH / NaHSO4	5 / 10		
		76546	32.96	39.36	6.40	DI / MEOH / NaHSO4	5 / 10	SG8888-3 A	
		76547	33.00			DI / MEOH / NaHSO4	5 / 10		
		76548	33.12			DI / MEOH / NaHSO4	5 / 10		
		76549	33.19	39.17	5.98	DI / MEOH / NaHSO4	5 / 10	SG8888-5 A	
11-8-13	DM	76550	32.50			DI / MEOH / NaHSO4	5 / 10		
		76551	33.18			DI / MEOH / NaHSO4	5 / 10		
		76552	32.51	39.03	6.52 ✓	DI / MEOH / NaHSO4	5 / 10	SG9044-8 A	
		76553	33.28			DI / MEOH / NaHSO4	5 / 10		
		76554	33.51			DI / MEOH / NaHSO4	5 / 10		
		76555	32.96	39.96	7.00 ✓	DI / MEOH / NaHSO4	5 / 10		
		76556	32.96	39.71	6.75 ✓	DI / MEOH / NaHSO4	5 / 10	SG9044-4A	
		76557	32.60	38.61	6.01 ✓	DI / MEOH / NaHSO4	5 / 10	SG9044-3 A	
		76558	33.30	39.46	6.16 ✓	DI / MEOH / NaHSO4	5 / 10	SG9044-2 A	
		76559	32.50	39.08	6.58 ✓	DI / MEOH / NaHSO4	5 / 10	SG9044-1 A	

40 mL Vial Lot #: 082613-3AVF/100713-3AVF

MeOH Lot #: DI421

NaSO4 Lot #:

DI Preservative = Deionized Water +Stirbar

NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

Katahdin Analytical Services 0000286

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
11-8-13	DM	76560	32.93			DI / MEOH / NaHSO4	5 / 10		
		76561	32.73	39.30	6.57 ✓	DI / MEOH / NaHSO4	5 / 10	S69044-9 A	
		76562	33.41			DI / MEOH / NaHSO4	5 / 10		
		76563	33.31	40.32	7.01 ✓	DI / MEOH / NaHSO4	5 / 10	S69044-7 A	
		76564	32.87	38.69	5.82 ✓	DI / MEOH / NaHSO4	5 / 10	S69044-6 A	
		76565	32.93			DI / MEOH / NaHSO4	5 / 10		
		76566	33.31			DI / MEOH / NaHSO4	5 / 10		
		76567	32.99			DI / MEOH / NaHSO4	5 / 10		
		76568	33.45			DI / MEOH / NaHSO4	5 / 10		
		76569	33.47			DI / MEOH / NaHSO4	5 / 10		
		76570	33.35			DI / MEOH / NaHSO4	5 / 10		
		76571	33.21			DI / MEOH / NaHSO4	5 / 10		
		76572	32.56			DI / MEOH / NaHSO4	5 / 10		
		76573	32.98			DI / MEOH / NaHSO4	5 / 10		
		76574	32.66			DI / MEOH / NaHSO4	5 / 10		
		76575	32.64			DI / MEOH / NaHSO4	5 / 10		
		76576	33.18			DI / MEOH / NaHSO4	5 / 10		
		76577	32.60			DI / MEOH / NaHSO4	5 / 10		
		76578	33.28			DI / MEOH / NaHSO4	5 / 10		
		76579	33.17			DI / MEOH / NaHSO4	5 / 10		

40 mL Vial Lot # 100713-3AVF
MeOH Lot #: DI421
NaSO4 Lot #:

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

Katahdin Analytical Services 0000287

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
11-8-13	DM	76580	32.67			DI / MEOH / NaHSO4	5 / 10		
		76581	32.97			DI / MEOH / NaHSO4	5 / 10		
		76582	32.94			DI / MEOH / NaHSO4	5 / 10		
		76583	32.64	33.09	0.45	DI / MEOH / NaHSO4	5 / 10	S69014-10A	
		76584	33.36			DI / MEOH / NaHSO4	5 / 10		
		76585	33.33			DI / MEOH / NaHSO4	5 / 10		
		76586	32.82			DI / MEOH / NaHSO4	5 / 10		
		76587	32.70			DI / MEOH / NaHSO4	5 / 10		
		76588	32.64			DI / MEOH / NaHSO4	5 / 10		
		76589	32.57			DI / MEOH / NaHSO4	5 / 10		
11-8-13	DM	76590	36.56			DI / MEOH / NaHSO4	5 / 10		
		76591	36.89			DI / MEOH / NaHSO4	5 / 10		
		76592	36.59			DI / MEOH / NaHSO4	5 / 10		
		76593	37.08			DI / MEOH / NaHSO4	5 / 10		
		76594	36.84			DI / MEOH / NaHSO4	5 / 10		
		76595	36.84			DI / MEOH / NaHSO4	5 / 10		
		76596	36.90			DI / MEOH / NaHSO4	5 / 10		
		76597	36.61			DI / MEOH / NaHSO4	5 / 10		
		76598	37.02			DI / MEOH / NaHSO4	5 / 10		
		76599	37.17			DI / MEOH / NaHSO4	5 / 10		

40 mL Vial Lot #: 100713-3AVF
MeOH Lot #: DI421
NaSO4 Lot #:

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

TOTAL PETROLEUM HYDROCARBON

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** SL
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	OTP	#
RS-SB1-111413	SG9044-1DL	A	63.1	
RS-SB1-111413	SG9044-1RE	A	103.	*
RS-SB2-111513	SG9044-2RE	A	39.5	
RS-SB3-111513	SG9044-3REDL	A	59.3	
RS-SB4-111813	SG9044-4RE	A	59.9	
RS-SB5-111813	SG9044-5REDL	A	0.00	D
RS-SB6-111513	SG9044-6REDL	A	58.8	
RS-SB7-111413	SG9044-7	A	89.0	
RS-SB7-111413	SG9044-7RE	A	66.5	
RS-SB8-111413	SG9044-8	A	88.6	
RS-SB8-111413	SG9044-8RE	A	47.1	
FD-SO-111813	SG9044-9REDL	A	0.00	D
Method Blank Sample	WG135097-1	A	92.4	
Laboratory Control S	WG135097-2	A	74.5	
Laboratory Control S	WG135097-3	A	81.4	
Method Blank Sample	WG135352-1	A	60.1	
Laboratory Control S	WG135352-2	A	60.4	
Laboratory Control S	WG135352-3	A	67.3	

		QC Limits
OTP	O-TERPHENYL	28-101

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** AQ
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	OTP	#
IDW-GW-112113	SG9180-11	A	66.7	
Method Blank Sample	WG134891-1	A	84.5	
Laboratory Control S	WG134891-2	A	77.5	
Laboratory Control S	WG134891-3	A	89.0	

		QC Limits
OTP	O-TERPHENYL	51-103

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : AGK20370.D
Instrument ID : GC10
Matrix : AQ

SDG : WE40-1
Lab Sample ID : WG134891-1
Date Extracted : 22-NOV-13
Date Analyzed : 26-NOV-13
Time Analyzed : 16:15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG134891-2	AGK20371	11/26/13	16:50
Laboratory Control S	WG134891-3	AGK20372	11/26/13	17:25
IDW-GW-112113	SG9180-11	AGK20373	11/26/13	18:00

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : AGK20367A.
Instrument ID : GC10
Matrix : SL

SDG : WE40-1
Lab Sample ID : WG135097-1
Date Extracted : 25-NOV-13
Date Analyzed : 26-NOV-13
Time Analyzed : 14:30

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG135097-2	AGK20368	11/26/13	15:05
Laboratory Control S	WG135097-3	AGK20369	11/26/13	15:40
RS-SB7-111413	SG9044-7	AGK20375	11/26/13	19:10
RS-SB8-111413	SG9044-8	AGK20376	11/26/13	19:45
RS-SB1-111413	SG9044-1DL	AGL20023	12/03/13	09:40

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : AGL20007.D
Instrument ID : GC10
Matrix : SL

SDG : WE40-1
Lab Sample ID : WG135352-1
Date Extracted : 29-NOV-13
Date Analyzed : 02-DEC-13
Time Analyzed : 14:09

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG135352-2	AGL20008.	12/02/13	14:44
Laboratory Control S	WG135352-3	AGL20009.	12/02/13	15:19
RS-SB1-111413	SG9044-1RE	AGL20010.	12/02/13	15:54
RS-SB2-111513	SG9044-2RE	AGL20011.	12/02/13	16:30
RS-SB4-111813	SG9044-4RE	AGL20012.	12/02/13	17:05
RS-SB7-111413	SG9044-7RE	AGL20013.	12/02/13	17:40
RS-SB8-111413	SG9044-8RE	AGL20014.	12/02/13	18:15
RS-SB3-111513	SG9044-3REDL	AGL20015.	12/02/13	18:50
RS-SB5-111813	SG9044-5REDL	AGL20019.	12/02/13	21:10
RS-SB6-111513	SG9044-6REDL	AGL20020.	12/02/13	21:45
FD-SO-111813	SG9044-9REDL	AGL20021.	12/03/13	08:30

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** WE40-1
Project : NAVSTA Newport CTO WE40-04 **Column ID :** A
Instrument ID : GC10

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	OTP	OTP
Initial Calibration	WG126180-3	06/21/13	11:59	11.75	
Initial Calibration	WG126180-5	06/21/13	12:34	11.76	
Initial Calibration	WG126180-4	06/21/13	13:09	11.76	
Initial Calibration	WG126180-2	06/21/13	13:44	11.75	
Initial Calibration	WG126180-1	06/21/13	14:19	11.75	
Independent Source	WG126180-6	06/21/13	14:55		
Continuing Calibrati	WG135478-1	11/26/13	11:32	11.50	
Method Blank Sample	WG135097-1	11/26/13	14:30	11.49	
Laboratory Control S	WG135097-2	11/26/13	15:05	11.50	
Laboratory Control S	WG135097-3	11/26/13	15:40	11.50	
Method Blank Sample	WG134891-1	11/26/13	16:15	11.50	
Laboratory Control S	WG134891-2	11/26/13	16:50	11.50	
Laboratory Control S	WG134891-3	11/26/13	17:25	11.50	
IDW-GW-112113	SG9180-11	11/26/13	18:00	11.50	
RS-SB7-111413	SG9044-7	11/26/13	19:10	11.49	
RS-SB8-111413	SG9044-8	11/26/13	19:45	11.49	
Continuing Calibrati	WG135478-2	11/26/13	20:54	11.50	
Continuing Calibrati	WG135478-3	12/02/13	13:29	11.46	
Method Blank Sample	WG135352-1	12/02/13	14:09	11.46	
Laboratory Control S	WG135352-2	12/02/13	14:44	11.47	
Laboratory Control S	WG135352-3	12/02/13	15:19	11.47	
RS-SB1-111413	SG9044-1RE	12/02/13	15:54	11.47	
RS-SB2-111513	SG9044-2RE	12/02/13	16:30	11.46	
RS-SB4-111813	SG9044-4RE	12/02/13	17:05	11.47	
RS-SB7-111413	SG9044-7RE	12/02/13	17:40	11.46	
RS-SB8-111413	SG9044-8RE	12/02/13	18:15	11.46	
RS-SB3-111513	SG9044-3REDL	12/02/13	18:50	11.46	
Continuing Calibrati	WG135478-4	12/02/13	20:35	11.46	
RS-SB5-111813	SG9044-5REDL	12/02/13	21:10		
RS-SB6-111513	SG9044-6REDL	12/02/13	21:45	11.46	
FD-SO-111813	SG9044-9REDL	12/03/13	08:30		
RS-SB1-111413	SG9044-1DL	12/03/13	09:40	11.46	
Continuing Calibrati	WG135478-5	12/03/13	11:26	11.47	

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-1DL
Client ID: RS-SB1-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20023.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 25-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135097

Analysis Date: 03-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 86.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		100	mg/Kgdrywt	2	5	9.9	5.1	7.5
o-Terphenyl		63.1	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20023.D
Report Date: 03-Dec-2013 12:35

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20023.D
Lab Smp Id: SG9044-1DL Client Smp ID: RS-SB1-111413
Inj Date : 03-DEC-2013 09:40
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-1DL
Misc Info : WG135478,WG135097,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 2.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03550	Weight of Sample (Kg)
M	14.304	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.464	11.536	-0.072	254004		6.30712	0.415(M)	M2
S 10 Extractable TPH C10-C36	4.157	-20.310		53315803		1585.51	104(M)	

QC Flag Legend

M - Compound response manually integrated.

WAS

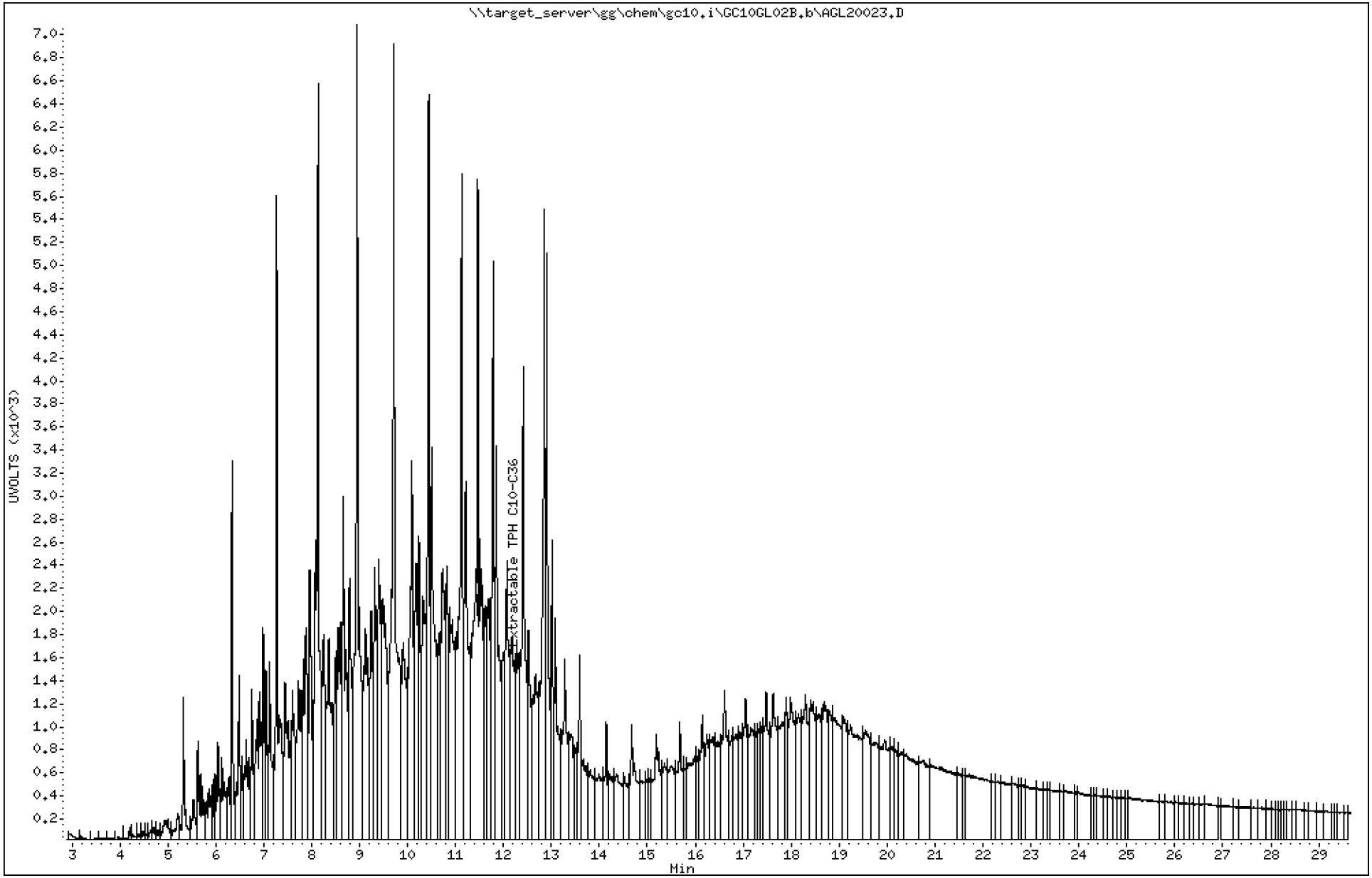
12:59 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20023.D
Date : 03-DEC-2013 09:40
Client ID: RS-SB1-111413
Sample Info: SG9044-1DL

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000302

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-1RE
Client ID: RS-SB1-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20010.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 86.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		48	mg/Kgdrywt	1	5	5.8	3.0	4.4
o-Terphenyl	*	103.	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20010.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20010.D
Lab Smp Id: SG9044-1RE Client Smp ID: RS-SB1-111413
Inj Date : 02-DEC-2013 15:54
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-1RE
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03010	Weight of Sample (Kg)
M	14.304	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.467	11.536	-0.069	805865	20.7089	0.803(RM)	
S 10 Extractable TPH C10-C36	4.157-20.310			41672695	1237.04	48.0(M)	M2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

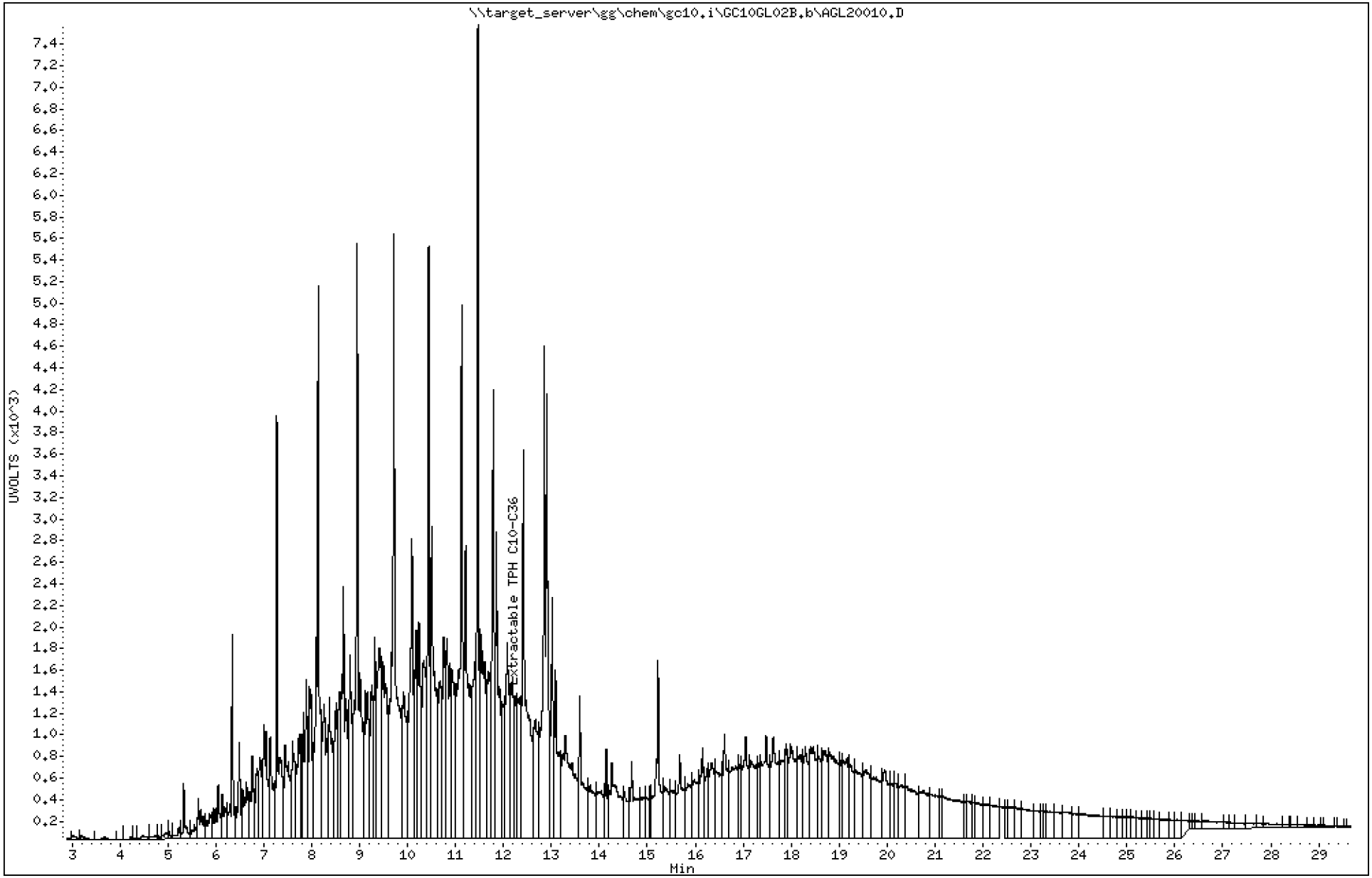
WAS
12:59 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20010.D
Date : 02-DEC-2013 15:54
Client ID: RS-SB1-111413
Sample Info: SG9044-1RE

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000305

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-2RE
Client ID: RS-SB2-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20011.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 84.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		5.5	mg/Kgdrywt	1	5	5.4	2.8	4.1
o-Terphenyl		39.5	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20011.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20011.D
Lab Smp Id: SG9044-2RE Client Smp ID: RS-SB2-111513
Inj Date : 02-DEC-2013 16:30
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-2RE
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03310	Weight of Sample (Kg)
M	16.198	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.464	11.536	-0.072	315415	7.90975	0.285(M)	M2
S 10 Extractable TPH C10-C36	4.157	-20.310		5463137	153.331	5.53(M)	

QC Flag Legend

M - Compound response manually integrated.

WAS

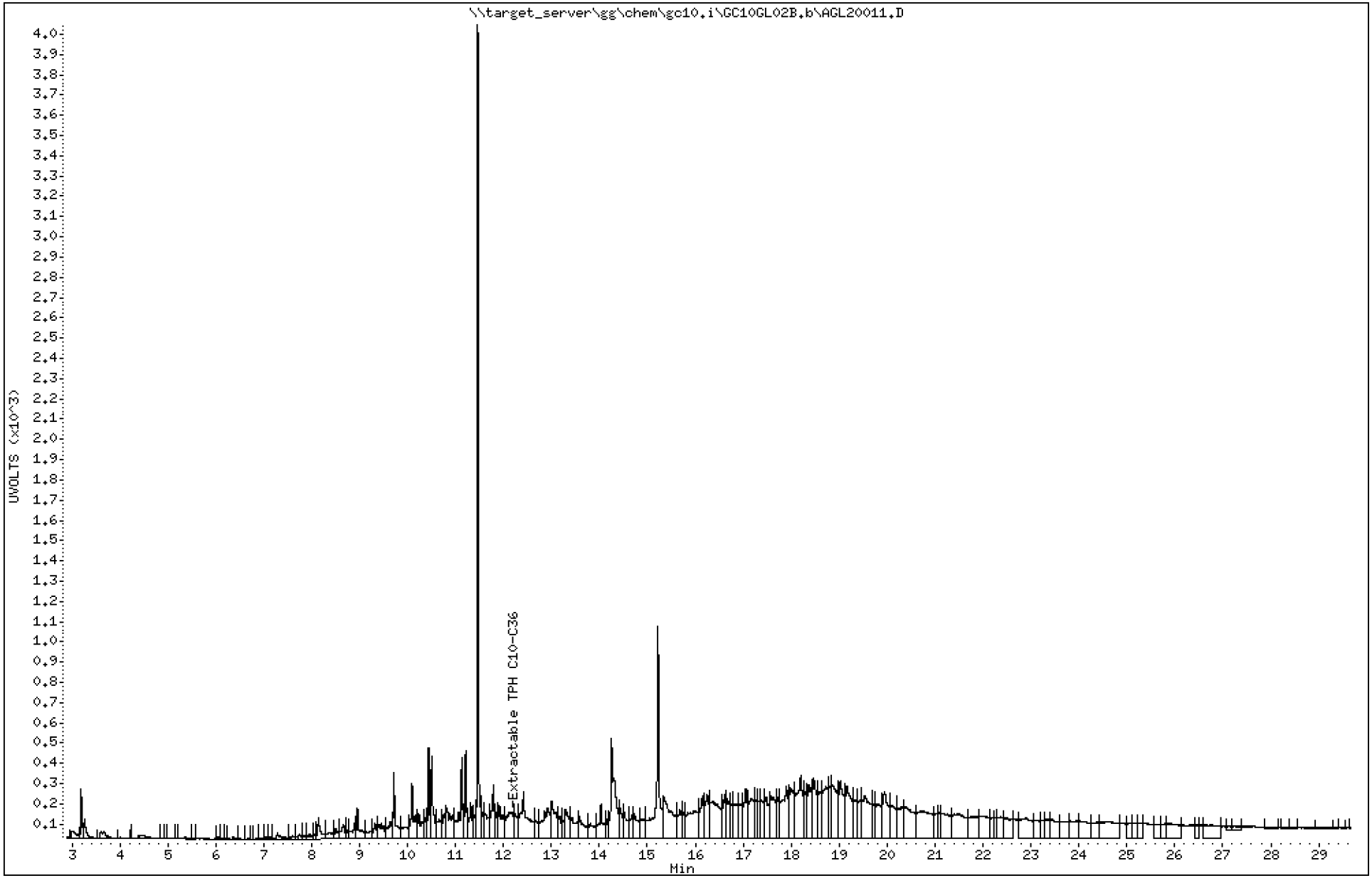
12:59 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20011.D
Date : 02-DEC-2013 16:30
Client ID: RS-SB2-111513
Sample Info: SG9044-2RE

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000308

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-3REDL
Client ID: RS-SB3-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20015.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 90.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		120	mg/Kgdrywt	5	5	27.	14.	20.
o-Terphenyl		59.3	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20015.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20015.D
Lab Smp Id: SG9044-3REDL Client Smp ID: RS-SB3-111513
Inj Date : 02-DEC-2013 18:50
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-3REDL
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03100	Weight of Sample (Kg)
M	10.030	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.464	11.536	-0.072	103084	2.36859	0.425(M)	M2
S 10 Extractable TPH C10-C36	4.157	-20.310		23666002	698.123	125(M)	

QC Flag Legend

M - Compound response manually integrated.

WAS

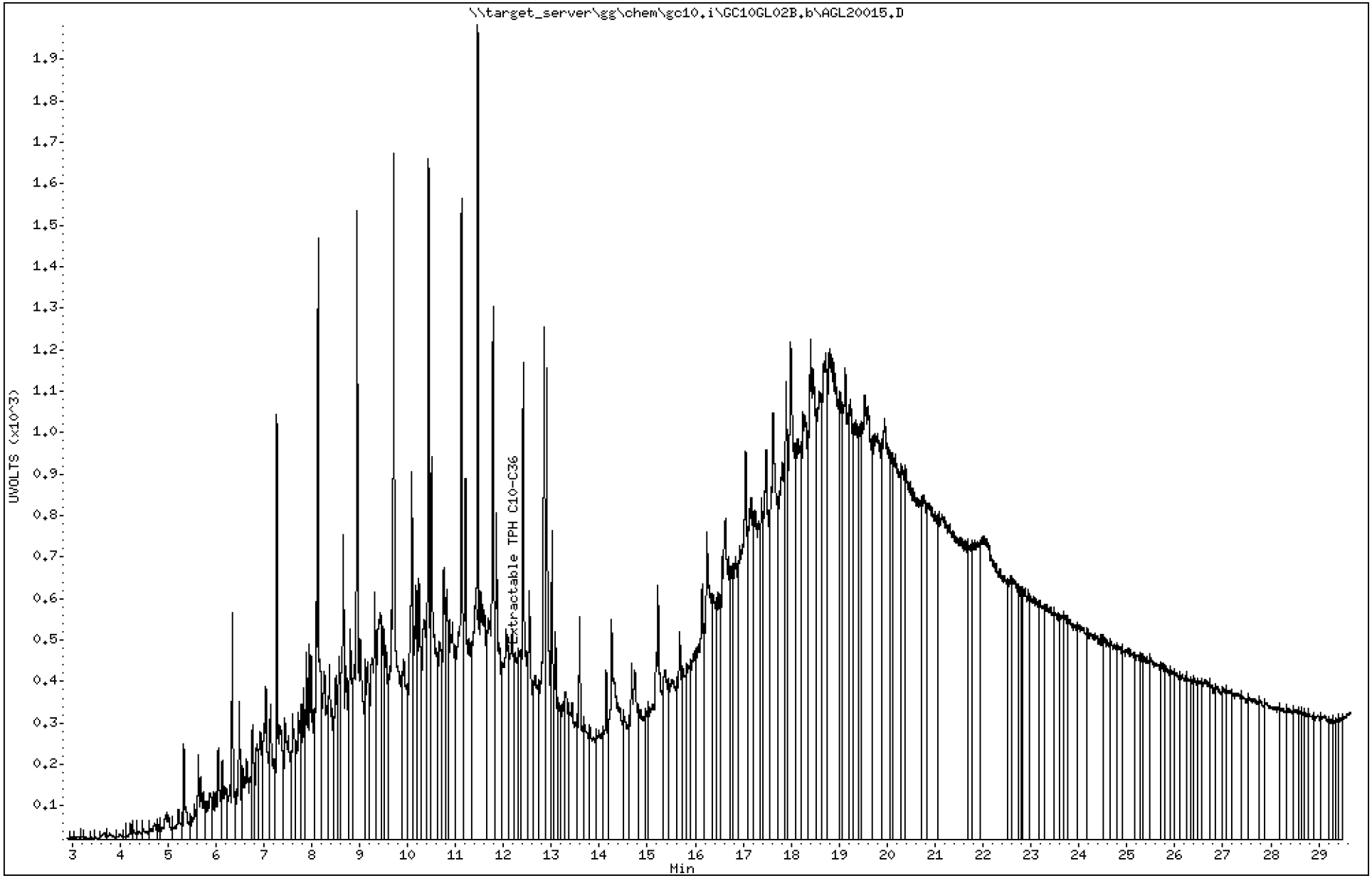
1:00 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20015.D
Date : 02-DEC-2013 18:50
Client ID: RS-SB3-111513
Sample Info: SG9044-3REDL

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000311

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-4RE
Client ID: RS-SB4-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20012.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 86.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	J	3.8	mg/Kgdrywt	1	5	5.8	3.0	4.4
o-Terphenyl		59.9	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20012.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20012.D
Lab Smp Id: SG9044-4RE Client Smp ID: RS-SB4-111813
Inj Date : 02-DEC-2013 17:05
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-4RE
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03010	Weight of Sample (Kg)
M	14.167	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.465	11.536	-0.071	471805		11.9910	0.464	
S 10 Extractable TPH C10-C36	4.157	-20.310		3616486		98.0629	3.80(a)	

QC Flag Legend

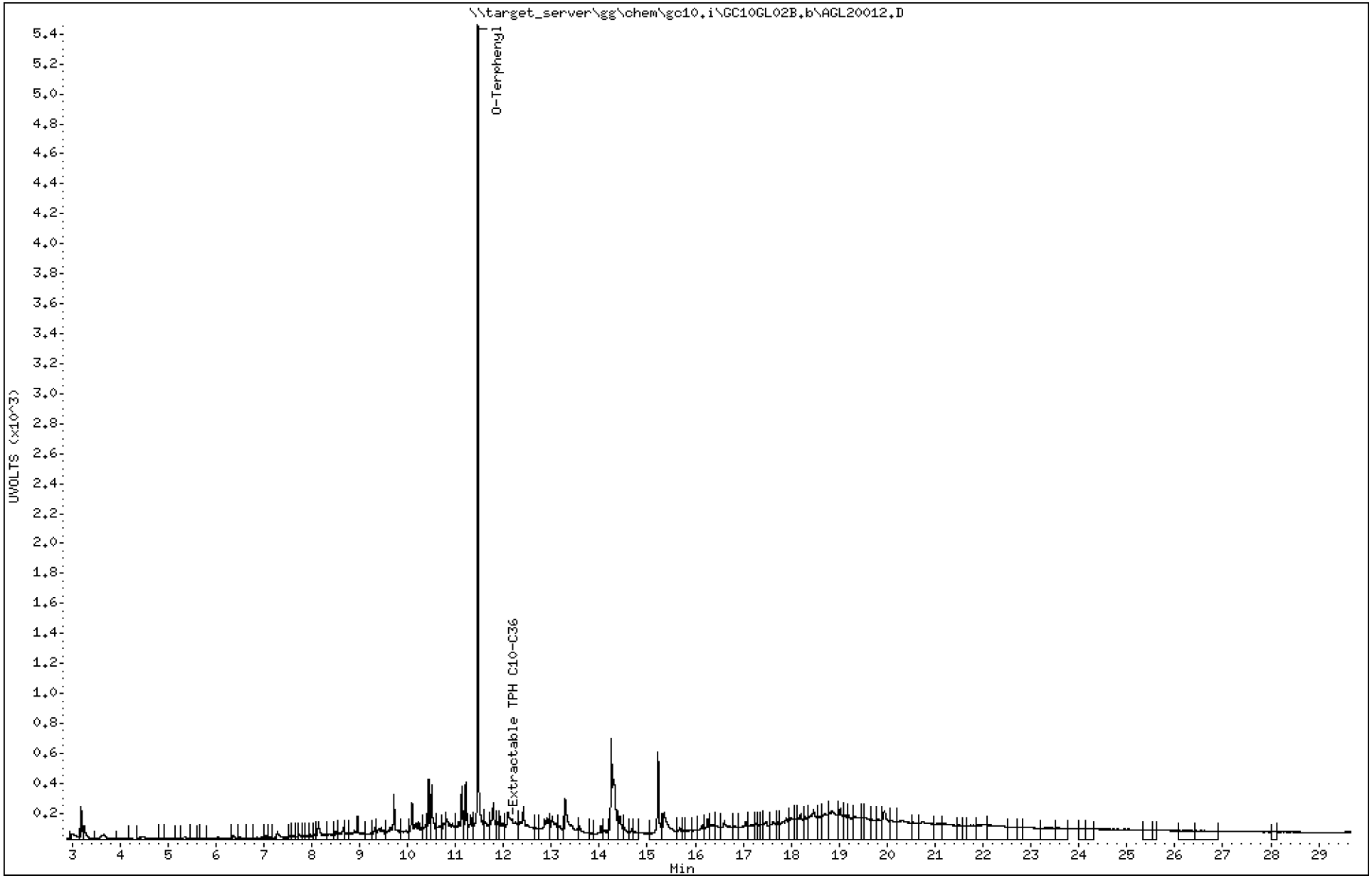
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20012.D
Date : 02-DEC-2013 17:05
Client ID: RS-SB4-111813
Sample Info: SG9044-4RE

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000314

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-5REDL
Client ID: RS-SB5-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20019.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 86.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		950	mg/Kgdrywt	10	5	54.	28.	41.
o-Terphenyl	D	0.00	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20019.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20019.D
Lab Smp Id: SG9044-5REDL Client Smp ID: RS-SB5-111813
Inj Date : 02-DEC-2013 21:10
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-5REDL
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03240	Weight of Sample (Kg)
M	13.940	Moisture (%)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
S 10 Extractable TPH C10-C36	4.157	-20.310		88476882	2637.84	946(M)	M11

QC Flag Legend

M - Compound response manually integrated.

WAS

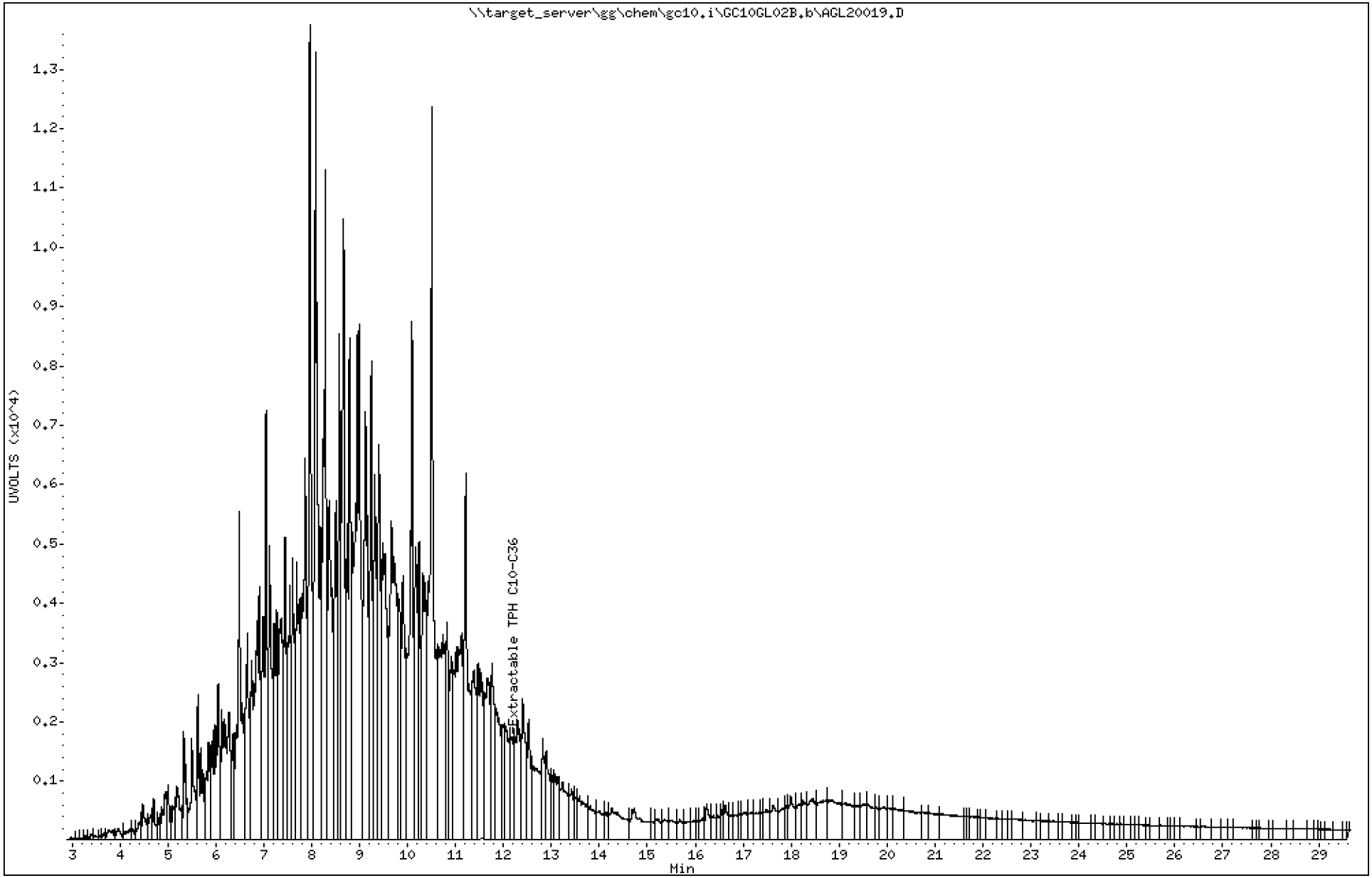
1:00 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20019.D
Date : 02-DEC-2013 21:10
Client ID: RS-SB5-111813
Sample Info: SG9044-5REDL

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000317

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-6REDL
Client ID: RS-SB6-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20020.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 90.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		86	mg/Kgdrywt	5	5	28.	14.	21.
o-Terphenyl		58.8	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20020.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20020.D
Lab Smp Id: SG9044-6REDL Client Smp ID: RS-SB6-111513
Inj Date : 02-DEC-2013 21:45
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-6REDL
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03010	Weight of Sample (Kg)
M	10.435	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.462	11.536	-0.074	102492		2.35314	0.436(M)	M2
S 10 Extractable TPH C10-C36	4.157-20.310			15830244		463.607	86.0(M)	

QC Flag Legend

M - Compound response manually integrated.

WAS

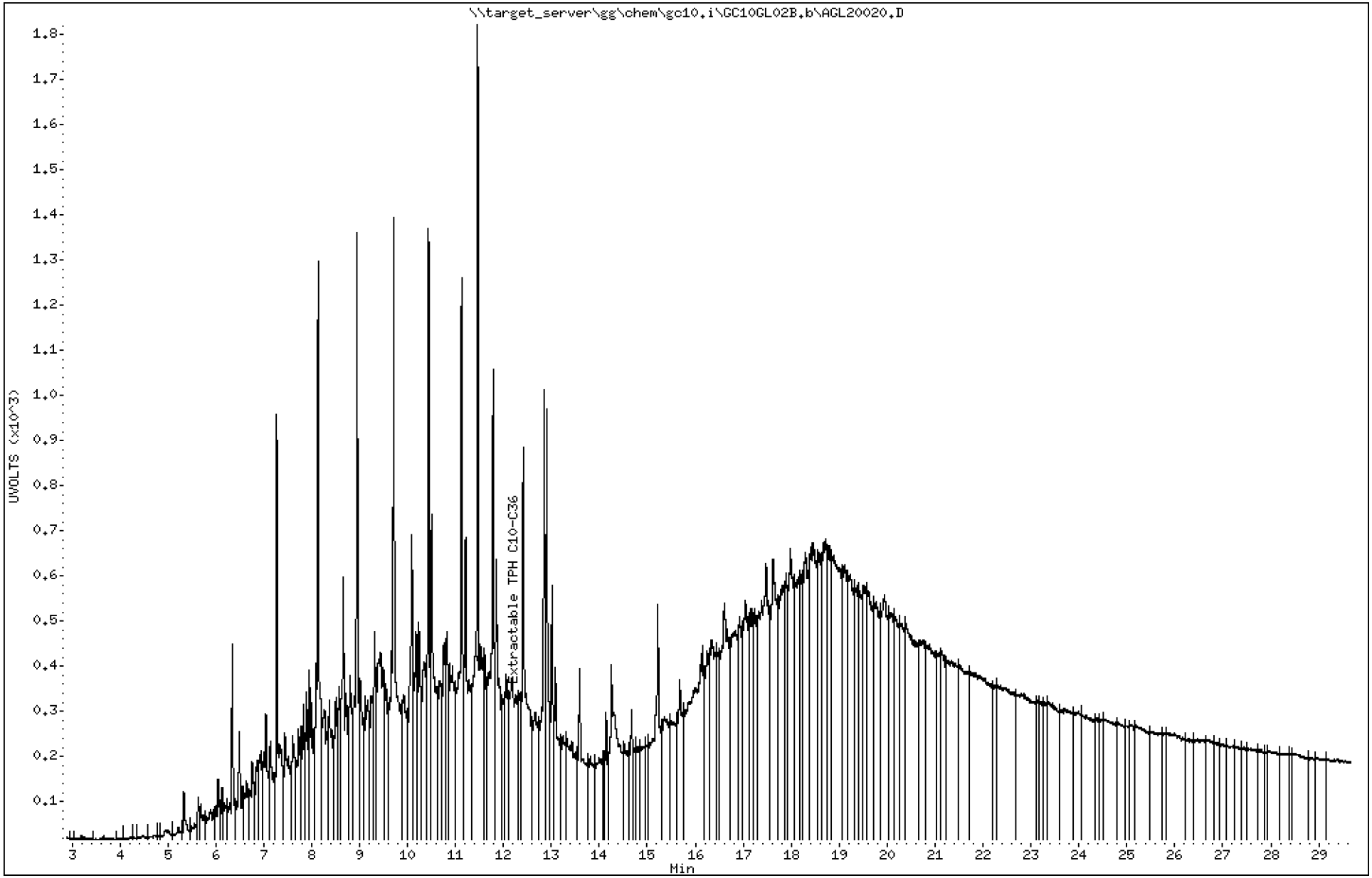
1:01 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20020.D
Date : 02-DEC-2013 21:45
Client ID: RS-SB6-111513
Sample Info: SG9044-6REDL

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000320

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-7
Client ID: RS-SB7-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGK20375.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 25-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135097

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 87.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	B	6.1	mg/Kgdrywt	1	5	5.5	2.9	4.2
o-Terphenyl		89.0	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20375.D
Report Date: 03-Dec-2013 12:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20375.D
Lab Smp Id: SG9044-7 Client Smp ID: RS-SB7-111413
Inj Date : 26-NOV-2013 19:10
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-7
Misc Info : WG135478,WG135097,WG125981-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

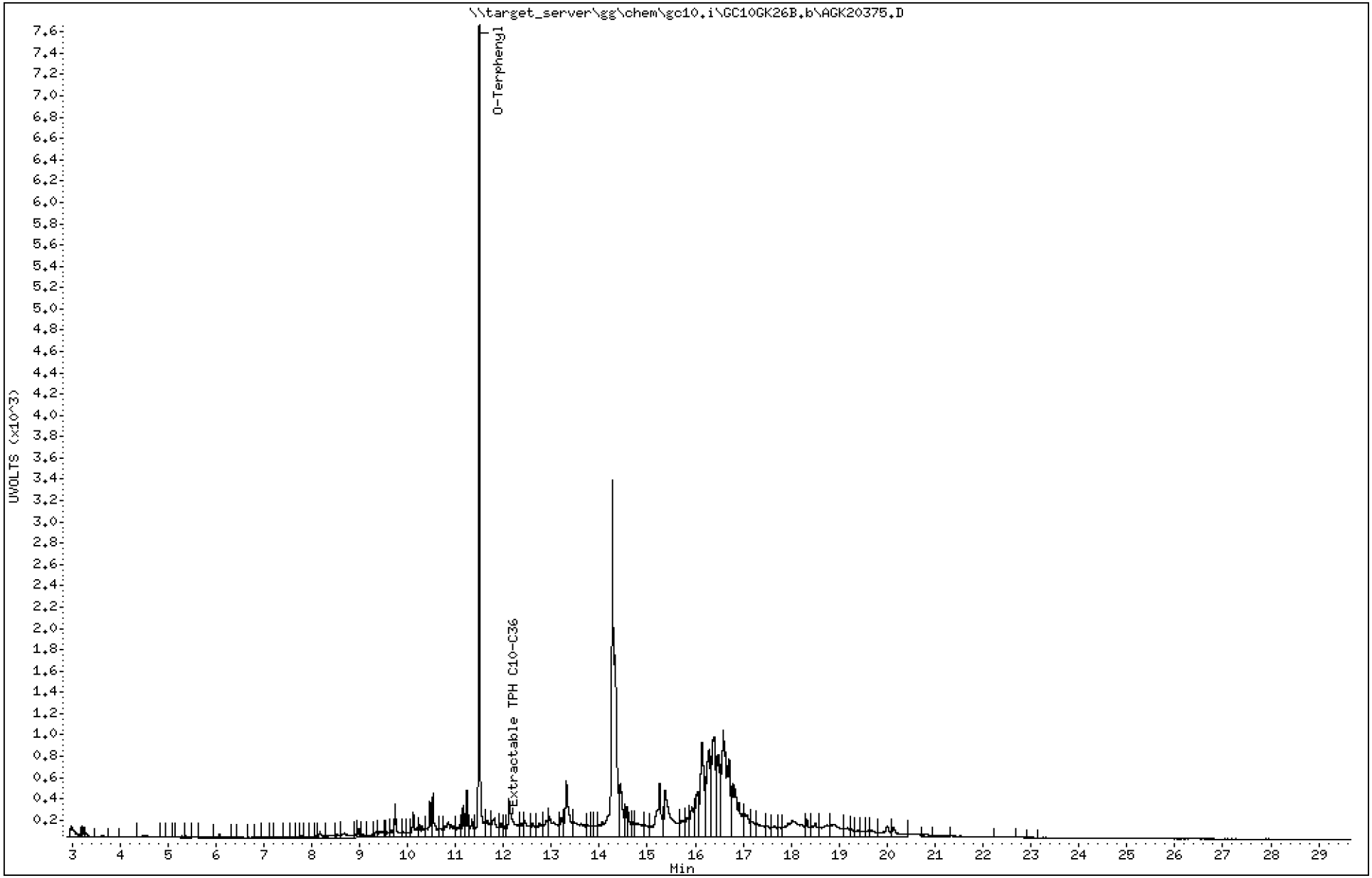
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03100	Weight of Sample (Kg)
M	12.708	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 8 O-Terphenyl	11.494	11.536	-0.042	694865		17.8122	0.658	
S 10 Extractable TPH C10-C36	4.157	-20.310		5892227		166.173	6.14	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20375.D
Date : 26-NOV-2013 19:10
Client ID: RS-SB7-111413
Sample Info: SG9044-7

Instrument: gc10.i

Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000323

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-7RE
Client ID: RS-SB7-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20013.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 87.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	J	3.0	mg/Kgdrywt	1	5	5.0	2.6	3.8
o-Terphenyl		66.5	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20013.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20013.D
Lab Smp Id: SG9044-7RE Client Smp ID: RS-SB7-111413
Inj Date : 02-DEC-2013 17:40
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-7RE
Misc Info : WG135478,WG135352,WG126180-3
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03440	Weight of Sample (Kg)
M	12.708	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.464	11.536	-0.072	522407	13.3116	0.443	
S 10 Extractable TPH C10-C36	4.157	-20.310		3323171	89.2843	2.97(a)	

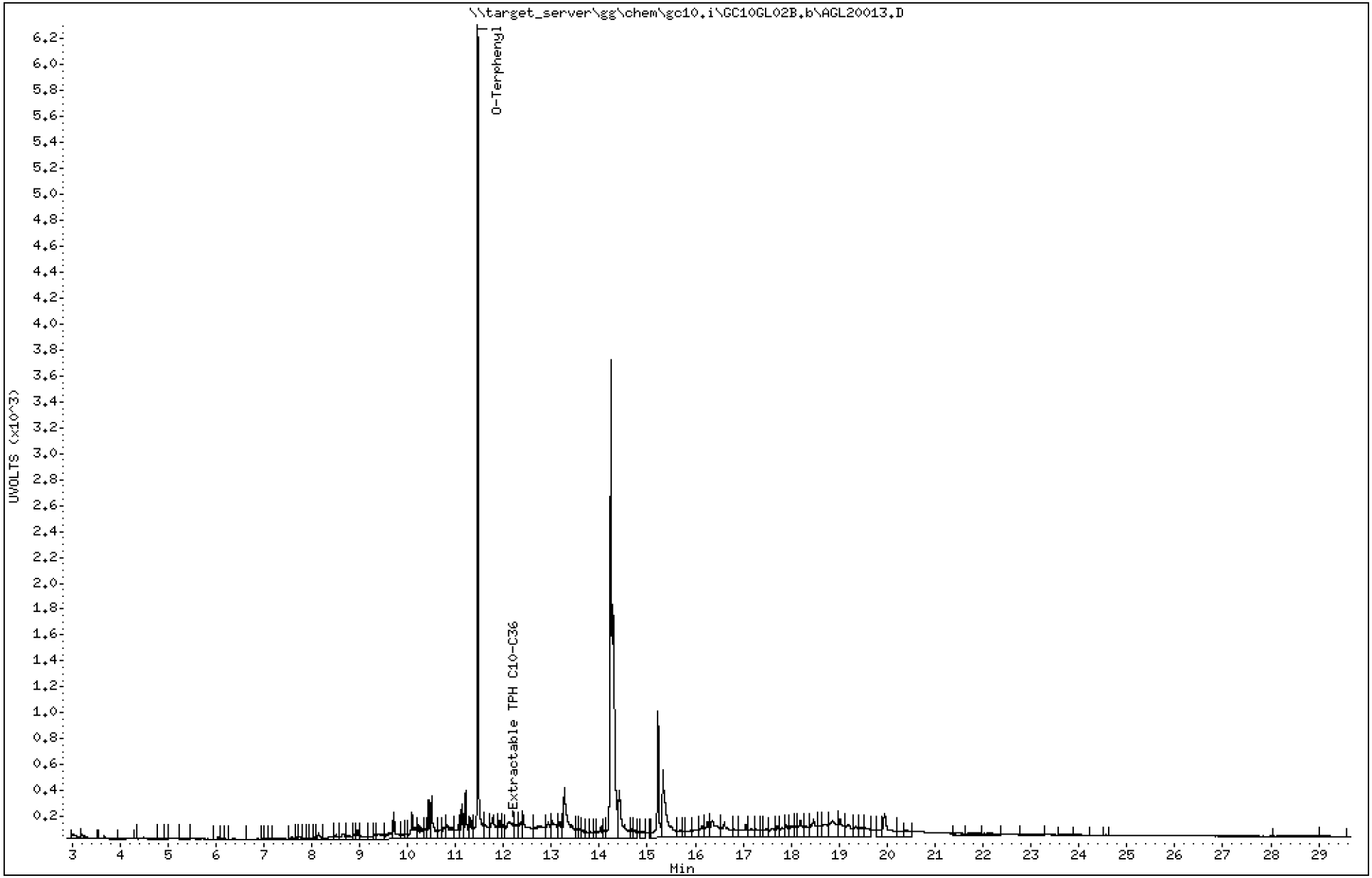
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20013.D
Date : 02-DEC-2013 17:40
Client ID: RS-SB7-111413
Sample Info: SG9044-7RE

Instrument: gc10.i

Operator: AC
Column phase: ZB-1
Column diameter: 0.25



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-8
Client ID: RS-SB8-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGK20376.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 25-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135097

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 78.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	B	7.9	mg/Kgdrywt	1	5	6.4	3.3	4.8
o-Terphenyl		88.6	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20376.D
Report Date: 03-Dec-2013 12:37

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Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20376.D
Lab Smp Id: SG9044-8 Client Smp ID: RS-SB8-111413
Inj Date : 26-NOV-2013 19:45
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-8
Misc Info : WG135478,WG135097,WG125981-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

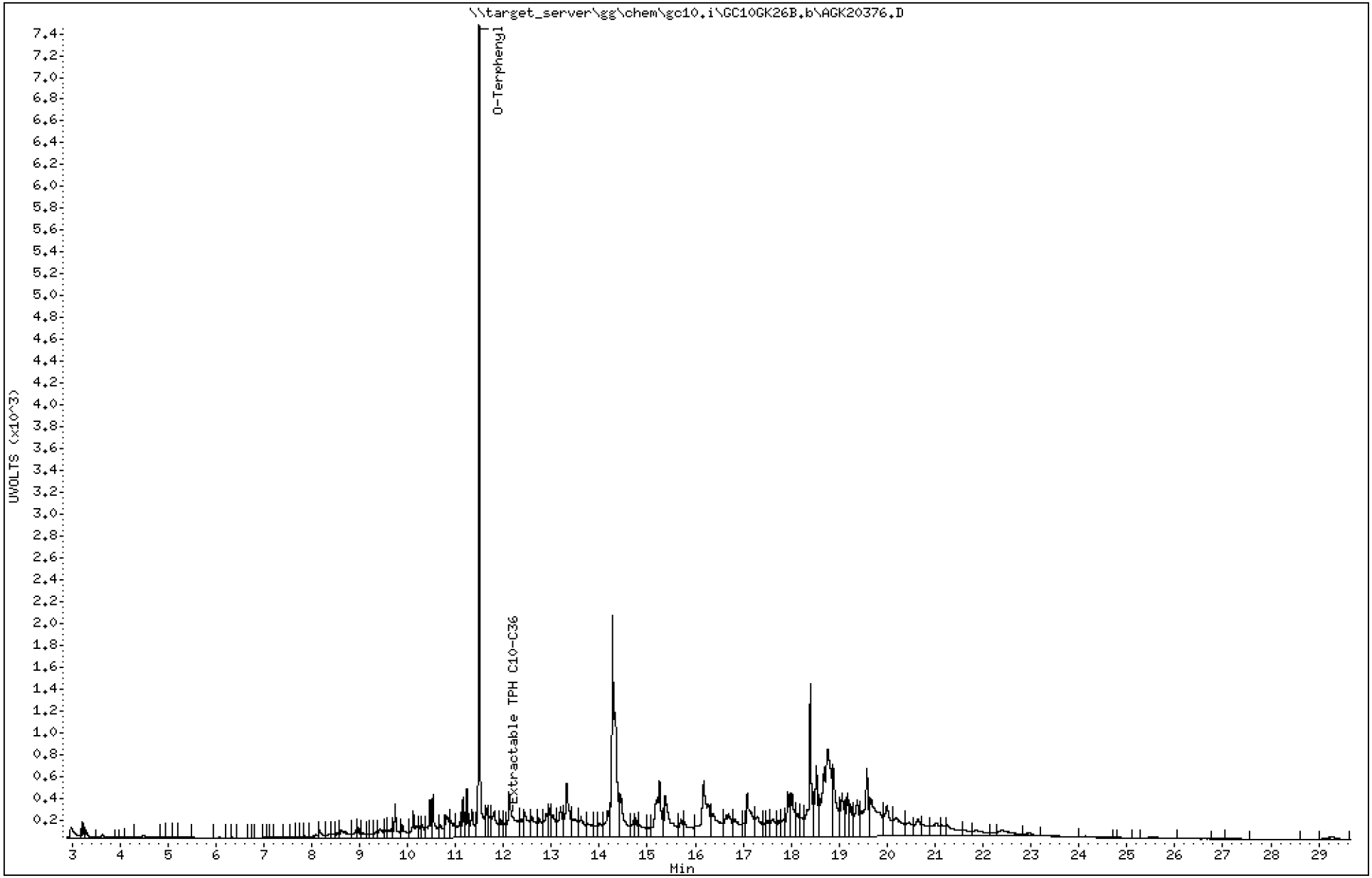
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03010	Weight of Sample (Kg)
M	22.065	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.494	11.536	-0.042	691534		17.7253	0.756	
S 10 Extractable TPH C10-C36	4.157	-20.310		6527283		185.180	7.89	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20376.D
Date : 26-NOV-2013 19:45
Client ID: RS-SB8-111413
Sample Info: SG9044-8

Instrument: gc10.i

Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000329

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-8RE
Client ID: RS-SB8-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20014.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 78.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		7.5	mg/Kgdrywt	1	5	5.8	3.0	4.4
o-Terphenyl		47.1	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20014.D
Report Date: 03-Dec-2013 12:34

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Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20014.D
Lab Smp Id: SG9044-8RE Client Smp ID: RS-SB8-111413
Inj Date : 02-DEC-2013 18:15
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-8RE
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03340	Weight of Sample (Kg)
M	22.065	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.463	11.536	-0.073	373081	9.41465	0.362(M)	M2
S 10 Extractable TPH C10-C36	4.157	-20.310		6901623	196.383	7.54(M)	

QC Flag Legend

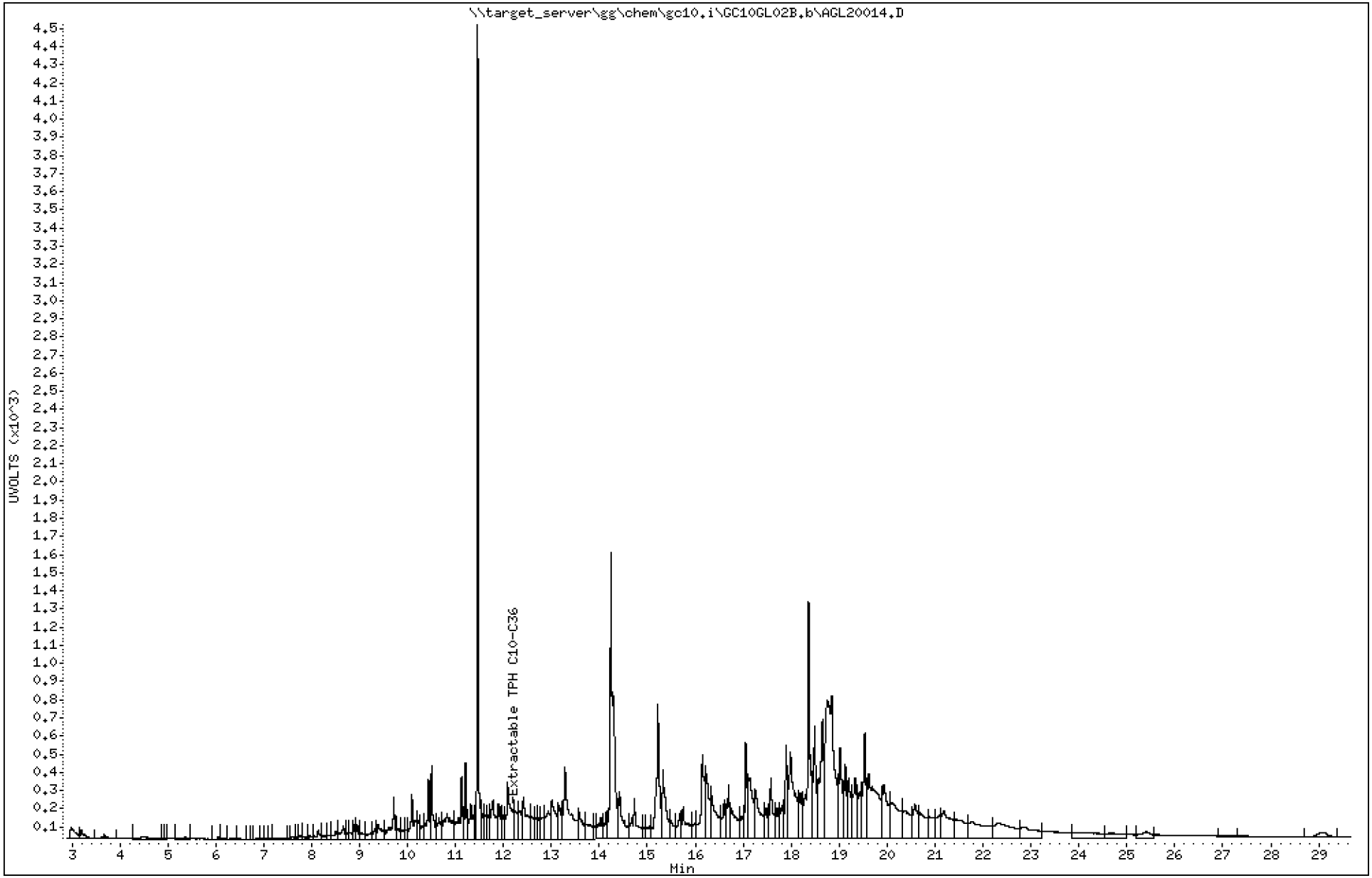
M - Compound response manually integrated.

WAS
1:01 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20014.D
Date : 02-DEC-2013 18:15
Client ID: RS-SB8-111413
Sample Info: SG9044-8RE

Instrument: gc10.i

Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000332

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-9REDL
Client ID: FD-SO-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGL20021.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 03-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: 86.
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		1100	mg/Kgdrywt	20	5	110	56.	82.
o-Terphenyl	D	0.00	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20021.D
Report Date: 03-Dec-2013 12:34

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20021.D
Lab Smp Id: SG9044-9REDL Client Smp ID: FD-SO-111813
Inj Date : 03-DEC-2013 08:30
Operator : AC Inst ID: gc10.i
Smp Info : SG9044-9REDL
Misc Info : WG135478,WG135352,WG126180-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 20.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03230	Weight of Sample (Kg)
M	13.996	Moisture (%)
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS		
				ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
S 10 Extractable TPH C10-C36	4.157	-20.310		50219362	1492.84	1070(M)	M11

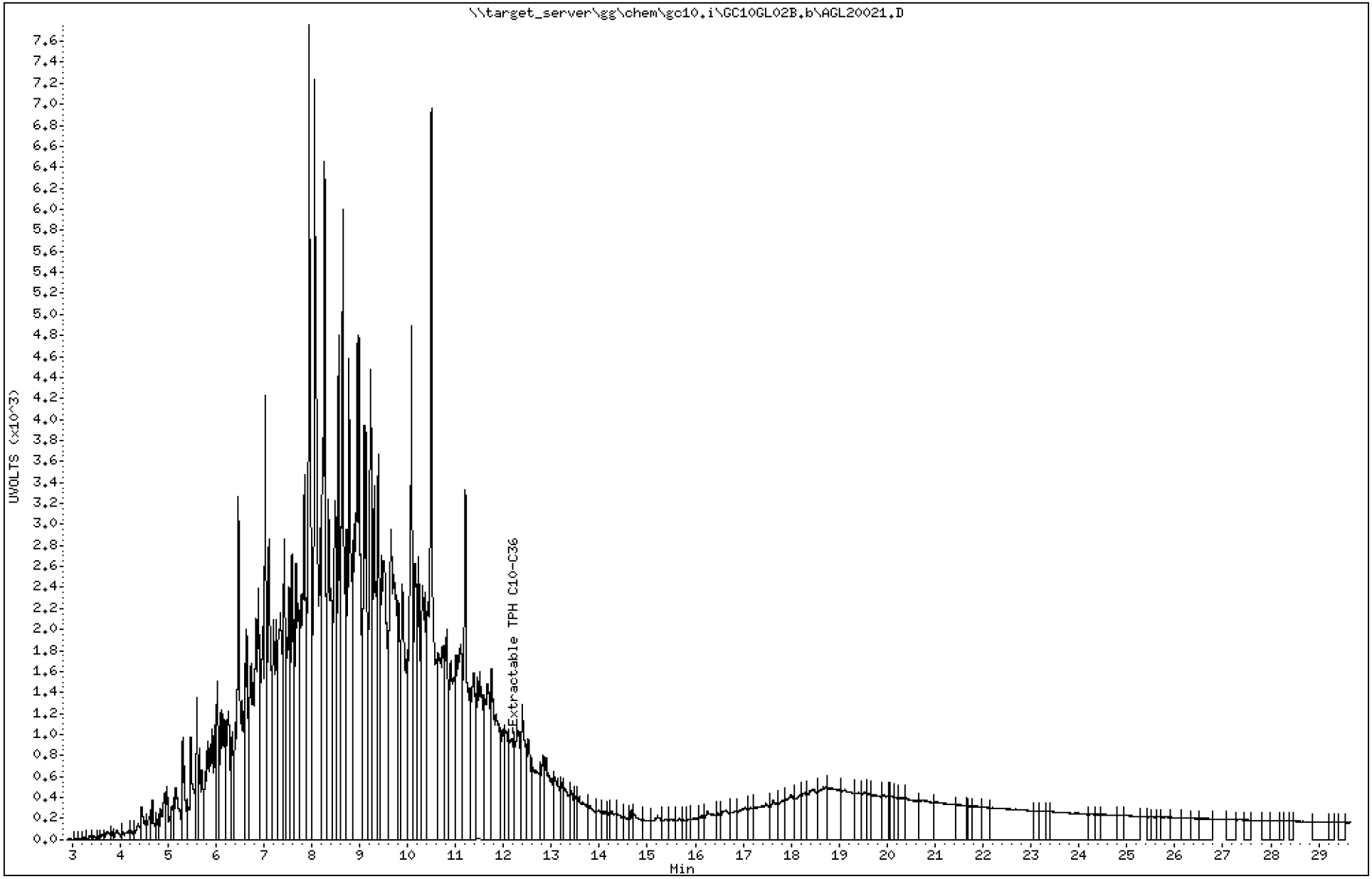
QC Flag Legend

M - Compound response manually integrated.

WAS

1:01 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20021.D
Date : 03-DEC-2013 08:30
Client ID: FD-SO-111813
Instrument: gc10.i
Sample Info: SG9044-9REDL
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000335

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-11
Client ID: IDW-GW-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: AGK20373.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 22-NOV-13
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG134891

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: AQ
% Solids: NA
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		250	ug/L	1	75	71.	8.6	53.
o-Terphenyl		66.7	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20373.D
Report Date: 03-Dec-2013 12:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20373.D
Lab Smp Id: SG9180-11 Client Smp ID: IDW-GW-112113
Inj Date : 26-NOV-2013 18:00
Operator : AC Inst ID: gc10.i
Smp Info : SG9180-11
Misc Info : WG135478,WG134891,WG125981-3
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 O-Terphenyl	11.495	11.536	-0.041	524067	13.3549	12.6(M)	
S 10 Extractable TPH C10-C36	4.157	-20.310		9181566	264.620	250(M)	M2

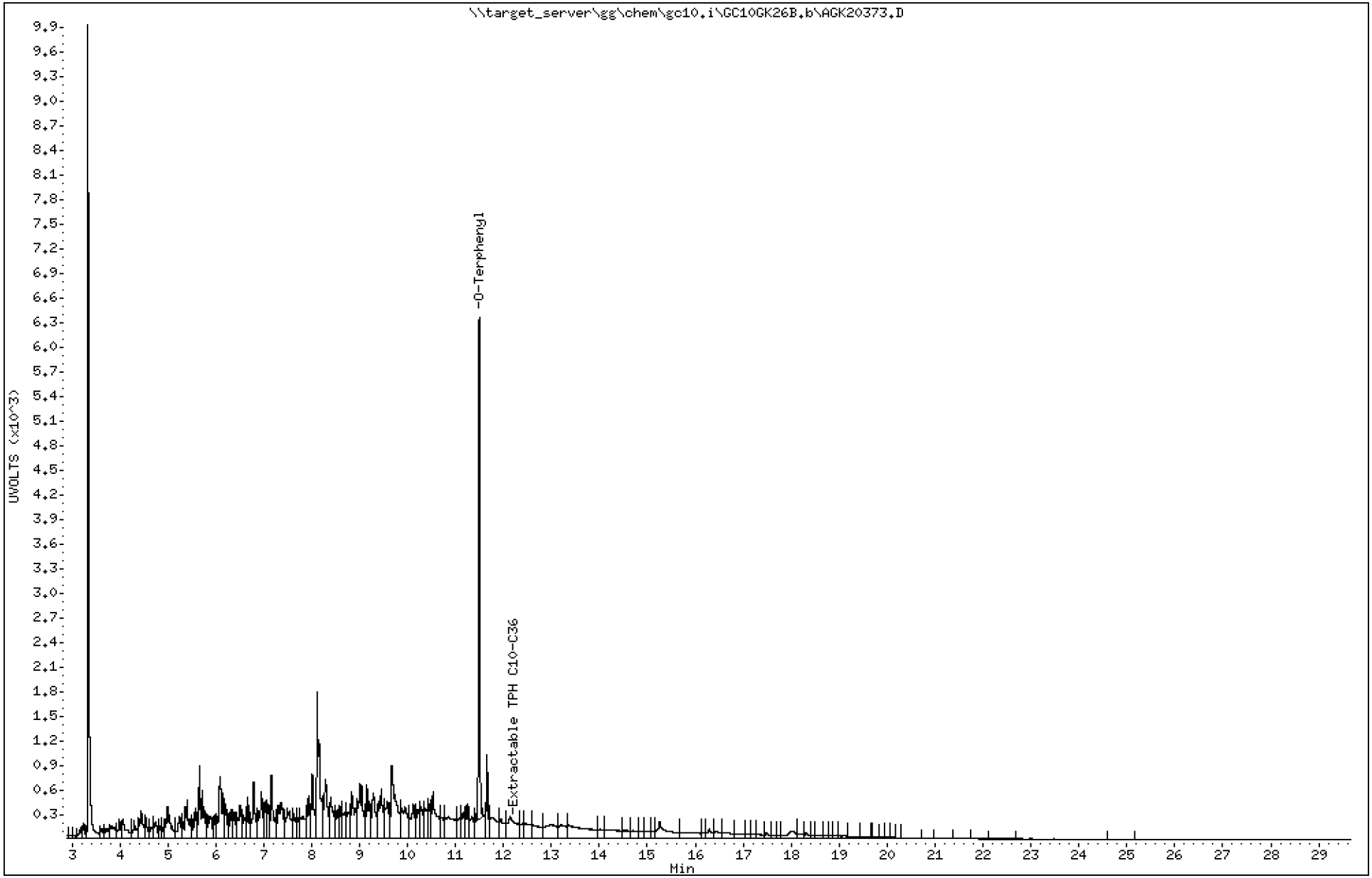
QC Flag Legend

M - Compound response manually integrated.

WAS

1:01 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20373.D
Date : 26-NOV-2013 18:00
Client ID: IDW-GW-112113
Instrument: gc10.i
Sample Info: SG9180-11
Purge Volume: 1.1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000338

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File IDs : AGF20129a. AGF20128a. AGF20125a. AGF20127a. AGF20126a.

SDG: WE40-1
Instrument ID: GC10
Column ID: A
Calibration Date(s): 21-JUN-13 11:59
21-JUN-13 14:19

	5.0000 Level 1	20.0000 Level 2	50.0000 Level 3	100.0000 Level 4	200.0000 Level 5		New Crv	b	m1	m2	%RSD	Max %RSD	
C-10	163320	719091	1766492	3554381	6920731		LNR	-0.54511	34695		0.99980	0.99000	O
C-12	162378	727183	1766392	3552071	6906134		LNR	-0.64301	34615		0.99977	0.99000	O
C-14	163593	722632	1760926	3540546	6873290		LNR	-0.68026	34454		0.99975	0.99000	O
C-16	166504	722063	1765314	3541554	6861051		LNR	-0.77124	34393		0.99972	0.99000	O
C-18	164796	717237	1765250	3513593	6825372		LNR	-0.78516	34200		0.99974	0.99000	O
C-19	161894	709381	1737651	3478788	6757572		LNR	-0.71226	33868		0.99976	0.99000	O
C-20	159499	704623	1745148	3459665	6731462		LNR	-0.74839	33730		0.99975	0.99000	O
C-22	161726	696892	1751133	3451792	6658975		LNR	-0.98970	33393		0.99957	0.99000	O
C-24	159641	695379	1744275	3434791	6719882		LNR	-0.65793	33656		0.99981	0.99000	O
C-26	154640	684702	1709645	3361153	6494227		LNR	-1.00012	32557		0.99959	0.99000	O
C-28	153723	678278	1695449	3330843	6432407		LNR	-1.02200	32248		0.99957	0.99000	O
C-30	151019	513749	1634412	3206144	6225260		LNR	0.24392	31404		0.99916	0.99000	O
C-36	120691	671133	1606910	3140504	5995689		LNR	-1.38206	30094		0.99912	0.99000	O
Extractable TPH	2204850	9679357	24197260	48087898	93286162		LNR	-10.17447	33413		0.99971	0.99000	M
O-Terphenyl	74540	320377	793080	1574737	3059024		LNR	-0.32158	38319		0.99974	0.99000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20130a.D
Report Date: 23-Jul-2013 15:48

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa00508
Sample Matrix: LIQUID Fraction: DRO
Lab Smp Id: WG126180-6
Level: LOW Operator: AC
Data Type: GC DATA SampleType: LCS
SpikeList File: IND_CHECK.spk Quant Type: ESTD
Sublist File: INDSOURCE.sub
Method File: \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Misc Info: WG126180,WG126180,WG126180-3,SG4839-2

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 C-9	50.0	49.7	99.37	80-120
3 C-10	50.0	49.8	99.63	80-120
4 C-12	50.0	50.0	100.01	80-120
5 C-14	50.0	50.0	100.07	80-120
6 C-16	50.0	49.4	98.73	80-120
7 C-18	50.0	49.5	98.99	80-120
9 C-19	50.0	49.9	99.77	80-120
11 C-20	50.0	49.9	99.86	80-120
12 C-22	50.0	50.3	100.69	80-120
13 C-24	50.0	49.2	98.40	80-120
14 C-26	50.0	49.8	99.61	80-120
15 C-28	50.0	49.4	98.83	80-120
16 C-30	50.0	49.1	98.15	80-120
17 C-36	50.0	44.2	88.40	80-120

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20125a.D
Report Date: 19-Jul-2013 09:42

Katahdin Analytical Services

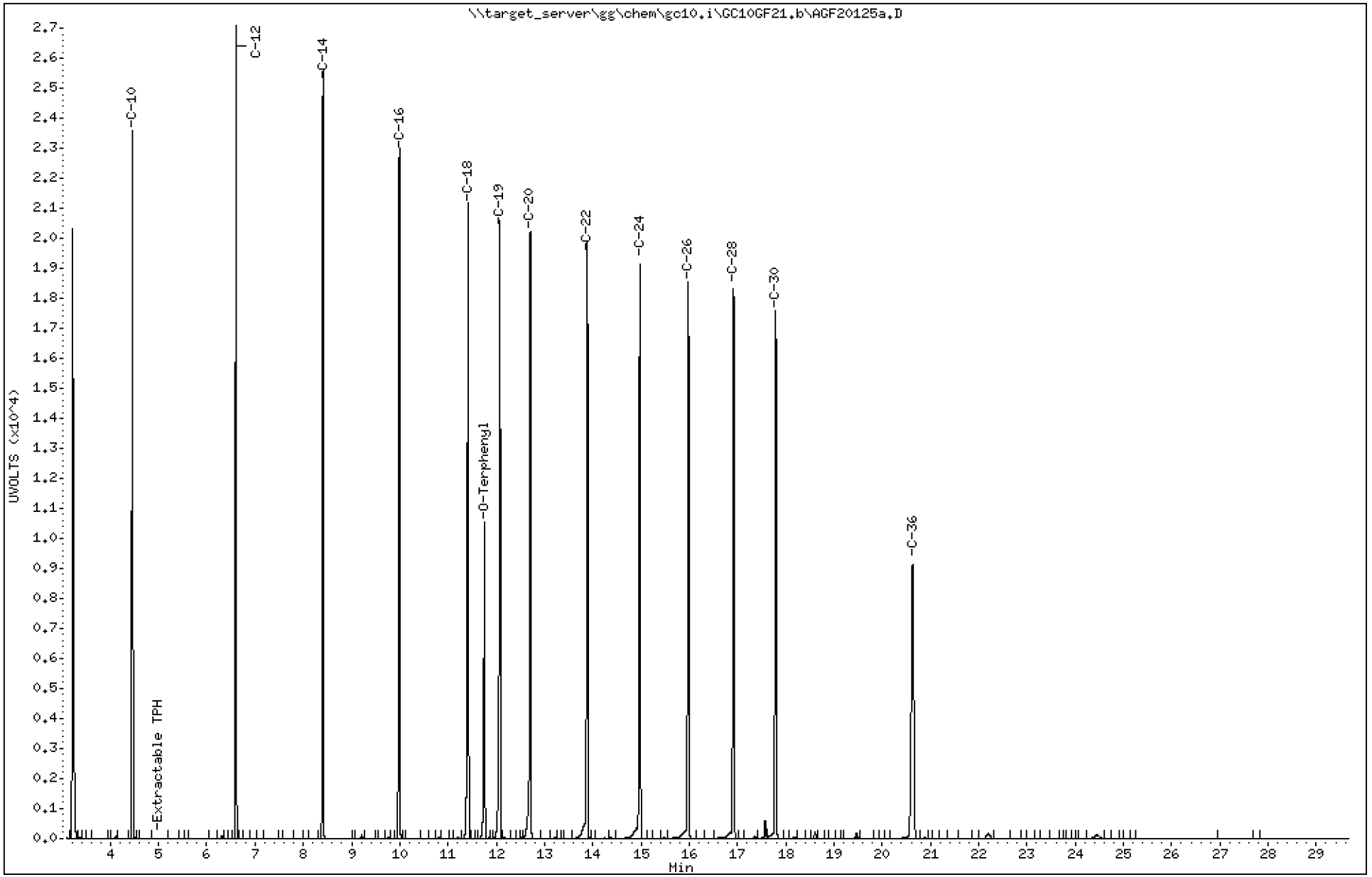
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20125a.D
Lab Smp Id: WG126180-3 Client Smp ID: Initial Calibration
Inj Date : 21-JUN-2013 11:59
Operator : AC Inst ID: gc10.i
Smp Info : WG126180-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin Quant Type: ESTD
Cal Date : 21-JUN-2013 11:59 Cal File: AGF20125a.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.220	3.221	-0.001	1748258	50.0000	50.0	
	3 C-10	4.456	4.456	0.000	1766492	50.0000	50.0	
	4 C-12	6.602	6.602	0.000	1766392	50.0000	50.0	
	5 C-14	8.405	8.405	0.000	1760926	50.0000	50.0	
	6 C-16	9.989	9.989	0.000	1765314	50.0000	50.0	
	7 C-18	11.413	11.413	0.000	1765250	50.0000	50.0	
$	8 O-Terphenyl	11.752	11.752	0.000	793080	20.0000	20.0	
	9 C-19	12.073	12.073	0.000	1737651	50.0000	50.0	
	11 C-20	12.704	12.705	-0.001	1745148	50.0000	50.0	
	12 C-22	13.886	13.886	0.000	1751133	50.0000	50.0	
	13 C-24	14.974	14.974	0.000	1744275	50.0000	50.0	
	14 C-26	15.981	15.981	0.000	1709645	50.0000	50.0	
	15 C-28	16.917	16.918	-0.001	1695449	50.0000	50.0	
	16 C-30	17.792	17.793	-0.001	1634412	50.0000	50.0	
	17 C-36	20.630	20.630	0.000	1606910	50.0000	50.0	
M	33 Extractable TPH				24197255	700.000	700	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20125a.D
Date : 21-JUN-2013 11:59
Client ID: Initial Calibration
Instrument: gc10.i
Sample Info: WG126180-3
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000343

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20126a.D
Report Date: 19-Jul-2013 09:43

Katahdin Analytical Services

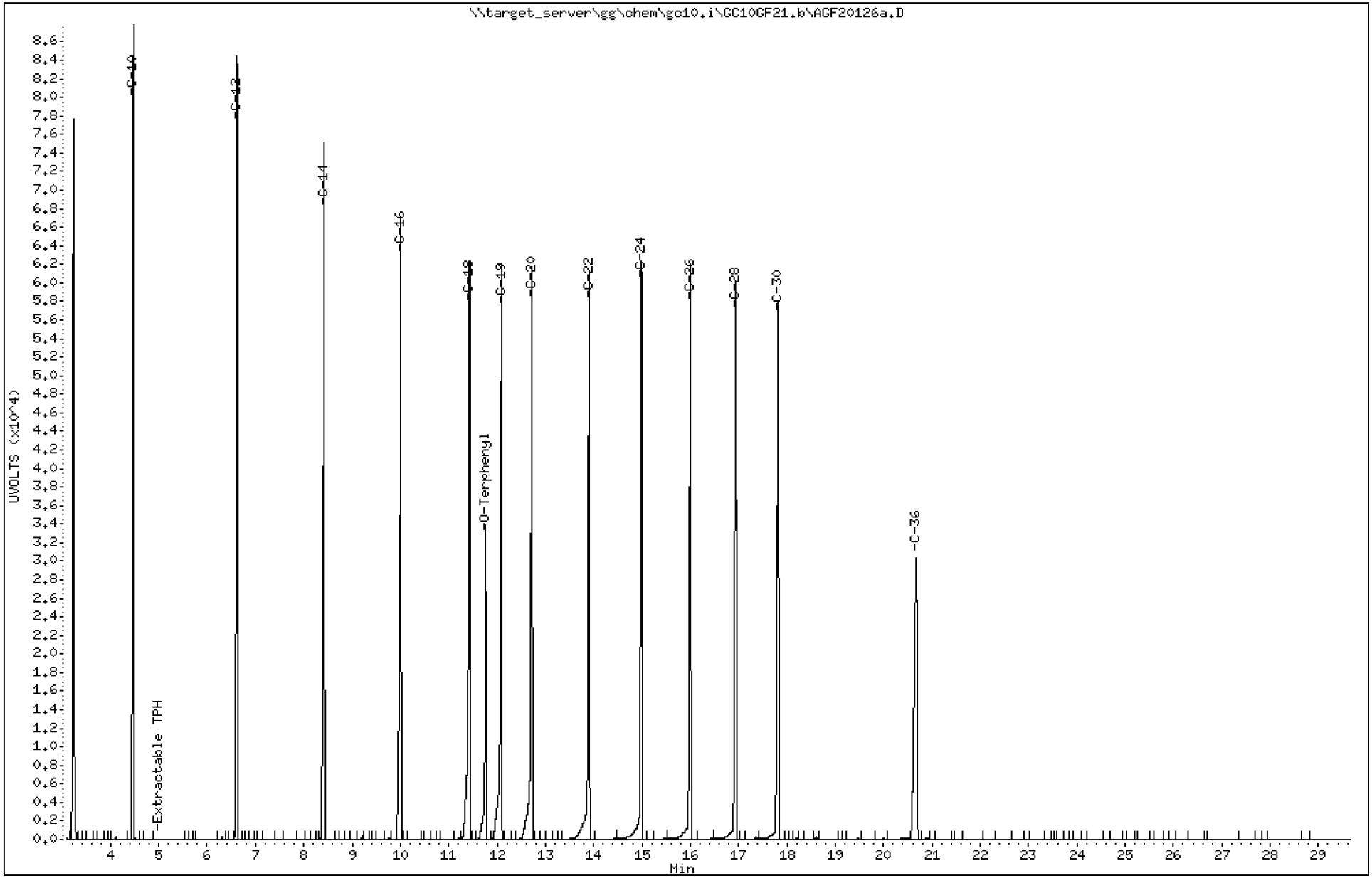
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20126a.D
Lab Smp Id: WG126180-5 Client Smp ID: Initial Calibration
Inj Date : 21-JUN-2013 12:34
Operator : AC Inst ID: gc10.i
Smp Info : WG126180-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin Quant Type: ESTD
Cal Date : 21-JUN-2013 12:34 Cal File: AGF20126a.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.232	3.221	0.011	6884106	200.000	200	
	3 C-10	4.470	4.456	0.014	6920731	200.000	200	
	4 C-12	6.615	6.602	0.013	6906134	200.000	200	
	5 C-14	8.417	8.405	0.012	6873290	200.000	200	
	6 C-16	10.002	9.989	0.013	6861051	200.000	200	
	7 C-18	11.427	11.413	0.014	6825372	200.000	200	
$	8 O-Terphenyl	11.763	11.752	0.011	3059024	80.0000	79.9	
	9 C-19	12.087	12.073	0.014	6757572	200.000	200	
	11 C-20	12.718	12.705	0.013	6731462	200.000	200	
	12 C-22	13.902	13.886	0.016	6658975	200.000	200	
	13 C-24	14.991	14.974	0.017	6719882	200.000	200	
	14 C-26	15.999	15.981	0.018	6494227	200.000	200	
	15 C-28	16.936	16.918	0.018	6432407	200.000	200	
	16 C-30	17.811	17.793	0.018	6225260	200.000	200	
	17 C-36	20.669	20.630	0.039	5995689	200.000	199	
M	33 Extractable TPH				93286158	2800.00	2800	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20126a.D
Date : 21-JUN-2013 12:34
Client ID: Initial Calibration
Instrument: gc10.i
Sample Info: WG126180-5
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000345

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20127a.D
Report Date: 19-Jul-2013 09:43

Katahdin Analytical Services

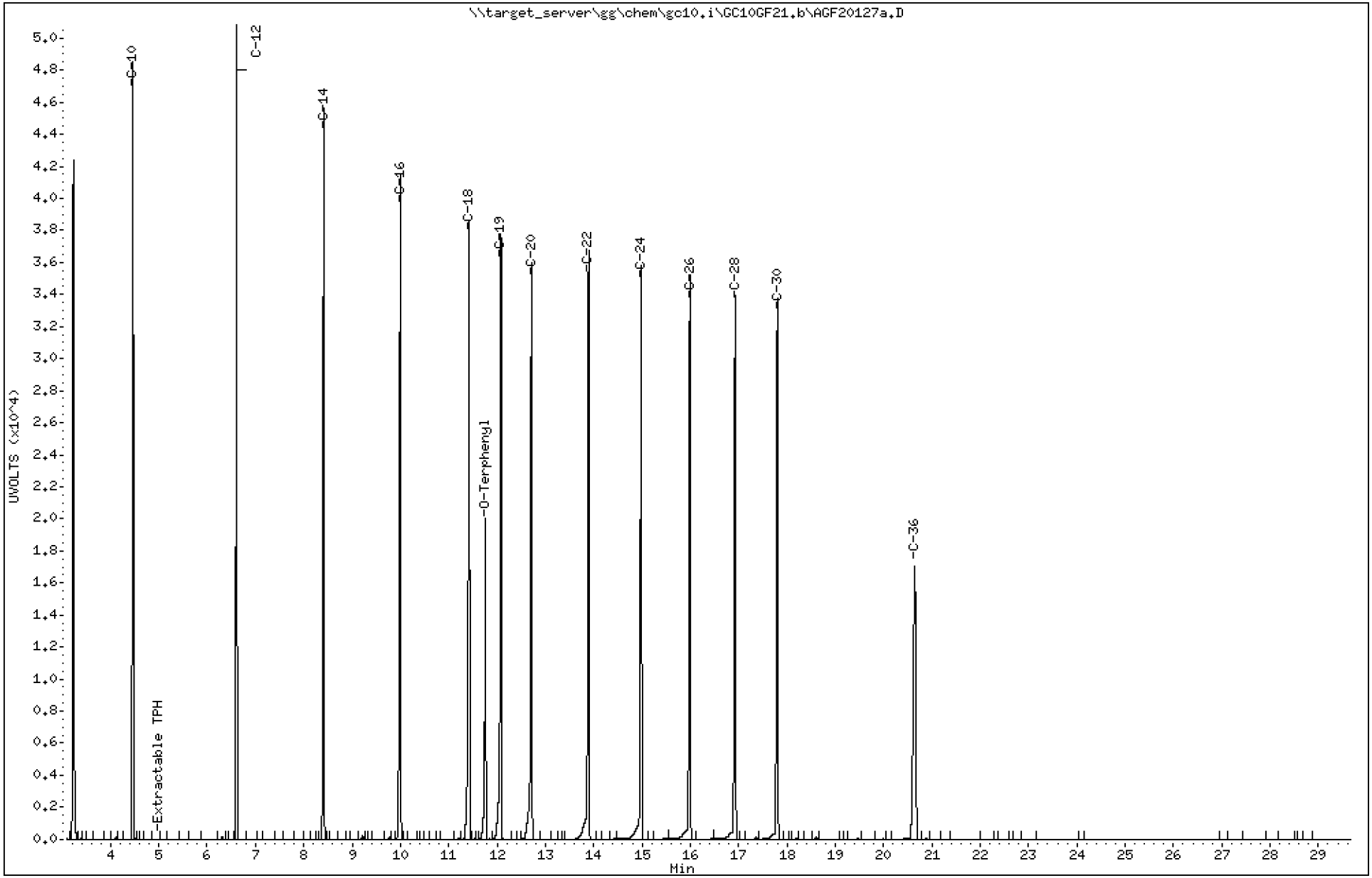
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20127a.D
Lab Smp Id: WG126180-4 Client Smp ID: Initial Calibration
Inj Date : 21-JUN-2013 13:09
Operator : AC Inst ID: gc10.i
Smp Info : WG126180-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin Quant Type: ESTD
Cal Date : 21-JUN-2013 13:09 Cal File: AGF20127a.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.228	3.221	0.007	3522067	100.000	102	
	3 C-10	4.462	4.456	0.006	3554381	100.000	102	
	4 C-12	6.608	6.602	0.006	3552071	100.000	102	
	5 C-14	8.410	8.405	0.005	3540546	100.000	102	
	6 C-16	9.995	9.989	0.006	3541554	100.000	102	
	7 C-18	11.419	11.413	0.006	3513593	100.000	102	
$	8 O-Terphenyl	11.757	11.752	0.005	1574737	40.0000	40.7	
	9 C-19	12.079	12.073	0.006	3478788	100.000	102	
	11 C-20	12.710	12.705	0.005	3459665	100.000	102	
	12 C-22	13.892	13.886	0.006	3451792	100.000	102	
	13 C-24	14.981	14.974	0.007	3434791	100.000	101	
	14 C-26	15.988	15.981	0.007	3361153	100.000	102	
	15 C-28	16.925	16.918	0.007	3330843	100.000	102	
	16 C-30	17.799	17.793	0.006	3206144	100.000	102	
	17 C-36	20.644	20.630	0.014	3140504	100.000	103	
M	33 Extractable TPH				48087892	1400.00	1430	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20127a.D
Date : 21-JUN-2013 13:09
Client ID: Initial Calibration
Instrument: gc10.i
Sample Info: WG126180-4
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000347

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20128a.D
Report Date: 19-Jul-2013 09:43

Katahdin Analytical Services

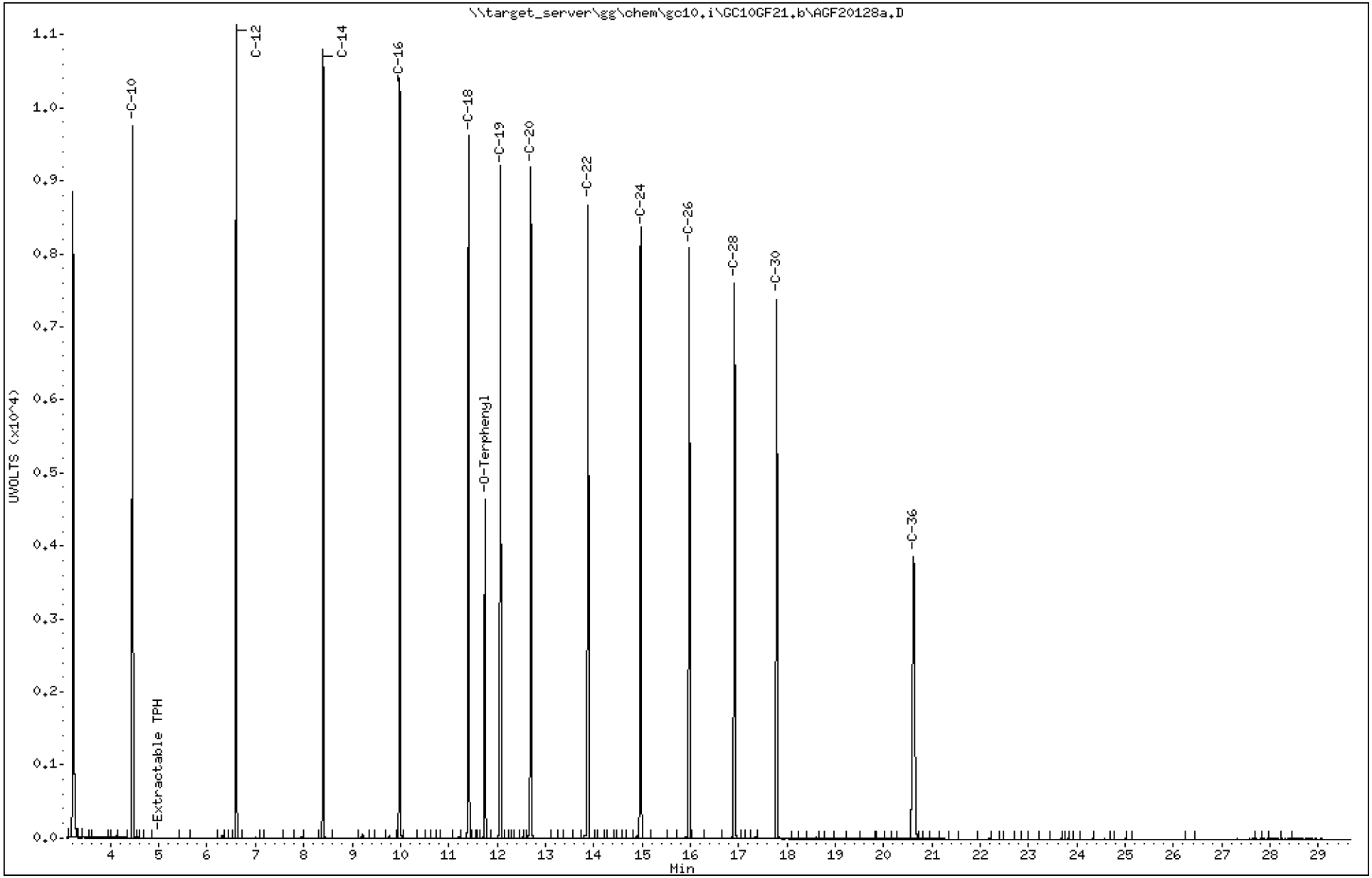
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20128a.D
Lab Smp Id: WG126180-2 Client Smp ID: Initial Calibration
Inj Date : 21-JUN-2013 13:44
Operator : AC Inst ID: gc10.i
Smp Info : WG126180-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin Quant Type: ESTD
Cal Date : 21-JUN-2013 13:44 Cal File: AGF20128a.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.223	3.221	0.002	717008	20.0000	20.0	
	3 C-10	4.455	4.456	-0.001	719091	20.0000	19.9	
	4 C-12	6.600	6.602	-0.002	727183	20.0000	20.0	
	5 C-14	8.402	8.405	-0.003	722632	20.0000	20.0	
	6 C-16	9.986	9.989	-0.003	722063	20.0000	19.9	
	7 C-18	11.409	11.413	-0.004	717237	20.0000	19.8	
$	8 O-Terphenyl	11.750	11.752	-0.002	320377	8.00000	7.91	
	9 C-19	12.070	12.073	-0.003	709381	20.0000	19.9	
	11 C-20	12.701	12.705	-0.004	704623	20.0000	19.8	
	12 C-22	13.882	13.886	-0.004	696892	20.0000	19.5	
	13 C-24	14.970	14.974	-0.004	695379	20.0000	19.7	
	14 C-26	15.977	15.981	-0.004	684702	20.0000	19.6	
	15 C-28	16.913	16.918	-0.005	678278	20.0000	19.6	
	16 C-30	17.788	17.793	-0.005	513749	20.0000	16.6	
	17 C-36	20.621	20.630	-0.009	671133	20.0000	20.1	
M	33 Extractable TPH				9679351	280.000	274	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20128a.D
Date : 21-JUN-2013 13:44
Client ID: Initial Calibration
Instrument: gc10.i
Sample Info: WG126180-2
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000349

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20129a.D
Report Date: 19-Jul-2013 09:43

Katahdin Analytical Services

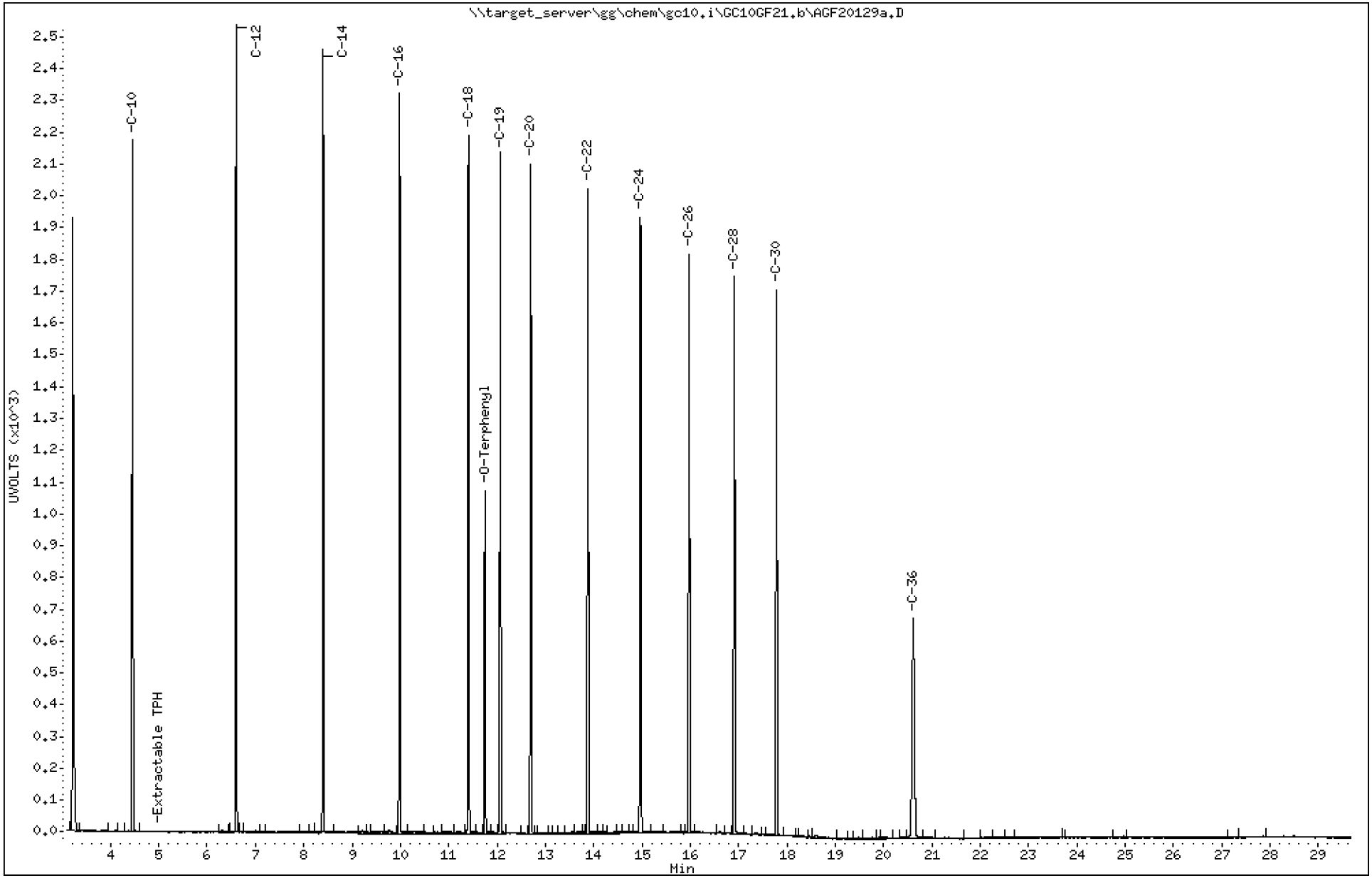
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20129a.D
Lab Smp Id: WG126180-1 Client Smp ID: Initial Calibration
Inj Date : 21-JUN-2013 14:19
Operator : AC Inst ID: gc10.i
Smp Info : WG126180-1
Misc Info :
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	2 C-9	3.220	3.221	-0.001	161421	5.00000	4.21	
	3 C-10	4.455	4.456	-0.001	163320	5.00000	4.16	
	4 C-12	6.599	6.602	-0.003	162378	5.00000	4.05	
	5 C-14	8.400	8.405	-0.005	163593	5.00000	4.07	
	6 C-16	9.984	9.989	-0.005	166504	5.00000	4.07	
	7 C-18	11.406	11.413	-0.007	164796	5.00000	4.03	
$	8 O-Terphenyl	11.749	11.752	-0.003	74540	2.00000	1.62	
	9 C-19	12.067	12.073	-0.006	161894	5.00000	4.07	
	11 C-20	12.698	12.705	-0.007	159499	5.00000	3.98	
	12 C-22	13.880	13.886	-0.006	161726	5.00000	3.85	
	13 C-24	14.968	14.974	-0.006	159641	5.00000	4.08	
	14 C-26	15.974	15.981	-0.007	154640	5.00000	3.75	
	15 C-28	16.910	16.918	-0.008	153723	5.00000	3.74	
	16 C-30	17.784	17.793	-0.009	151019	5.00000	5.05	
	17 C-36	20.613	20.630	-0.017	120691	5.00000	2.63	
M	33 Extractable TPH				2204845	70.0000	55.8	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20129a.D
Date : 21-JUN-2013 14:19
Client ID: Initial Calibration
Instrument: gc10.i
Sample Info: WG126180-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000351

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20130a.D
Report Date: 23-Jul-2013 15:48

Katahdin Analytical Services

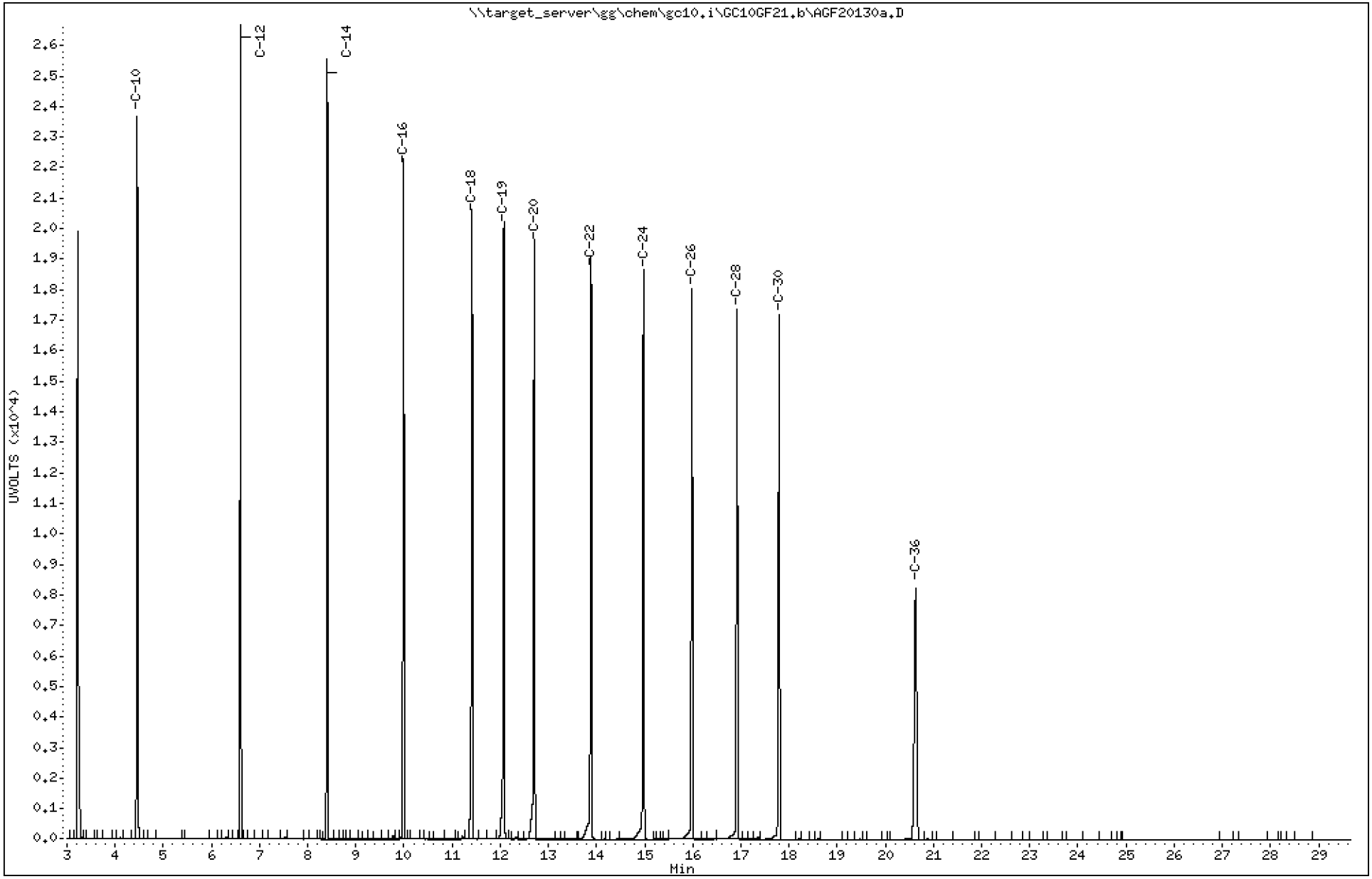
Data file : \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20130a.D
Lab Smp Id: WG126180-6
Inj Date : 21-JUN-2013 14:55
Operator : AC   Inst ID: gc10.i
Smp Info : WG126180-6,ORANGE-3
Misc Info : WG126180,WG126180,WG126180-3,SG4839-2
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GF21.b\tph07b.m
Meth Date : 27-Jun-2013 10:26 acronin   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 1   QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: INDSOURCE.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
2	C-9	3.221	3.221	0.000	1730094	49.6853	49.7	
3	C-10	4.458	4.456	0.002	1747283	49.8165	49.8	
4	C-12	6.604	6.602	0.002	1753173	50.0048	50.0	
5	C-14	8.406	8.405	0.001	1747409	50.0365	50.0	
6	C-16	9.990	9.989	0.001	1724376	49.3663	49.4	
7	C-18	11.413	11.413	0.000	1719570	49.4941	49.5	
9	C-19	12.073	12.073	0.000	1713704	49.8871	49.9	
11	C-20	12.705	12.705	0.000	1709328	49.9277	49.9	
12	C-22	13.886	13.886	0.000	1714157	50.3437	50.3	
13	C-24	14.974	14.974	0.000	1677972	49.1982	49.2	
14	C-26	15.981	15.981	0.000	1654070	49.8047	49.8	
15	C-28	16.918	16.918	0.000	1626433	49.4133	49.4	
16	C-30	17.792	17.793	-0.001	1533546	49.0766	49.1	
17	C-36	20.627	20.630	-0.003	1371789	44.2009	44.2	

Data File: \\target_server\gg\chem\gc10.i\GC10GF21.b\AGF20130a.D
Date : 21-JUN-2013 14:55
Client ID:
Instrument: gc10.i
Sample Info: WG126180-6,ORANGE-3
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000353

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 (6030727 **SDG:** WE40-1
Lab ID : WG135478-1 **Analytical Date:** 11/26/13 11:32
Lab File ID : AGK20364A.D **Instrument ID:** GC10
Initial Calibration Date(s): 06/21/13 11:59 06/21/13 14:19 **Column ID:** A

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
3 C-10	50.00000	54.01138	37857	0.010	8.02276	20.00000	Linear
4 C-12	50.00000	53.93841	37787	0.010	7.87683	20.00000	Linear
5 C-14	50.00000	54.68515	38152	0.010	9.37030	20.00000	Linear
6 C-16	50.00000	55.02145	38377	0.010	10.04290	20.00000	Linear
7 C-18	50.00000	55.82125	38719	0.010	11.64249	20.00000	Linear
9 C-19	50.00000	56.50740	38758	0.010	13.01481	20.00000	Linear
11 C-20	50.00000	56.65833	38727	0.010	13.31665	20.00000	Linear
12 C-22	50.00000	56.80882	38601	0.010	13.61764	20.00000	Linear
13 C-24	50.00000	56.96510	38788	0.010	13.93019	20.00000	Linear
14 C-26	50.00000	57.79321	38283	0.010	15.58642	20.00000	Linear
15 C-28	50.00000	58.24453	38224	0.010	16.48905	20.00000	Linear
16 C-30	50.00000	59.15307	37000	0.010	18.30614	20.00000	Linear
17 C-36	50.00000	58.78804	36216	0.010	17.57609	20.00000	Linear
33 Extractable TPH	700	734	35392	0.010	4.91373	20.00000	Linear
8 O-Terphenyl	20.00000	20.56265	40013	0.010	2.81325	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20364A.D
Report Date: 03-Dec-2013 12:56

Katahdin Analytical Services

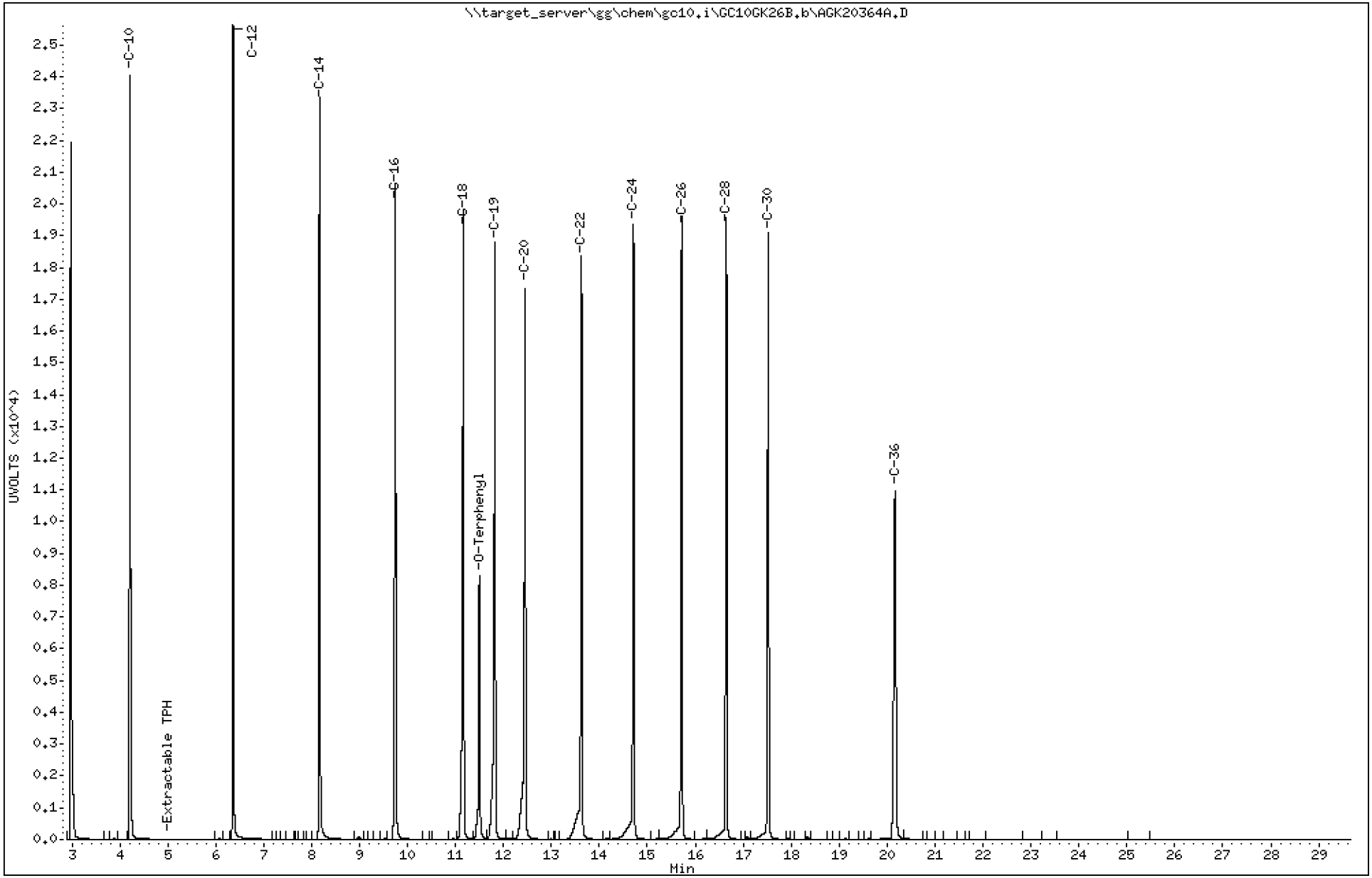
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20364A.D
Lab Smp Id: WG135478-1
Inj Date : 26-NOV-2013 11:32
Operator : AC   Inst ID: gc10.i
Smp Info : WG135478-1,WE40-1
Misc Info : WG135478,WG134478,WG126180-3,SG9180-11
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	3 C-10	4.211	4.256	-0.045	1892825	50.0000	54.0	
	4 C-12	6.362	6.403	-0.041	1889334	50.0000	53.9	
	5 C-14	8.164	8.204	-0.040	1907576	50.0000	54.7	
	6 C-16	9.743	9.784	-0.041	1918872	50.0000	55.0	
	7 C-18	11.161	11.202	-0.041	1935959	50.0000	55.8	
$	8 O-Terphenyl	11.496	11.536	-0.040	800259	20.0000	20.6	
	9 C-19	11.819	11.861	-0.042	1937923	50.0000	56.5	
	11 C-20	12.449	12.489	-0.040	1936357	50.0000	56.6	
	12 C-22	13.627	13.666	-0.039	1930043	50.0000	56.8	
	13 C-24	14.711	14.749	-0.038	1939377	50.0000	57.0	
	14 C-26	15.715	15.751	-0.036	1914154	50.0000	57.8	
	15 C-28	16.647	16.683	-0.036	1911220	50.0000	58.2	
	16 C-30	17.520	17.553	-0.033	1849990	50.0000	59.2	
	17 C-36	20.163	20.210	-0.047	1810779	50.0000	58.8	
M	33 Extractable TPH				24774409	700.000	734	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20364A.D
Date : 26-NOV-2013 11:32
Client ID:
Instrument: gc10.i
Sample Info: WG135478-1,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000356

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 (6030727 **SDG:** WE40-1
Lab ID : WG135478-2 **Analytical Date:** 11/26/13 20:54
Lab File ID : AGK20378A.D **Instrument ID:** GC10
Initial Calibration Date(s): 06/21/13 11:59 06/21/13 14:19 **Column ID:** A

Compound	RRF/Amount	RF20	CCAL RRF20	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
3 C-10	20.00000	21.27495	37852	0.010	6.37475	20.00000	Linear
4 C-12	20.00000	20.97128	37409	0.010	4.85641	20.00000	Linear
5 C-14	20.00000	21.70174	38558	0.010	8.50870	20.00000	Linear
6 C-16	20.00000	22.16510	39442	0.010	10.82550	20.00000	Linear
7 C-18	20.00000	22.27516	39434	0.010	11.37578	20.00000	Linear
9 C-19	20.00000	22.86761	39930	0.010	14.33804	20.00000	Linear
11 C-20	20.00000	22.79470	39706	0.010	13.97348	20.00000	Linear
12 C-22	20.00000	22.80446	39727	0.010	14.02231	20.00000	Linear
13 C-24	20.00000	23.13237	40035	0.010	15.66184	20.00000	Linear
14 C-26	20.00000	23.38858	39702	0.010	16.94291	20.00000	Linear
15 C-28	20.00000	23.70118	39864	0.010	18.50588	20.00000	Linear
16 C-30	20.00000	25.70026	39972	0.010	28.50131	20.00000	Linear
17 C-36	20.00000	23.51781	37467	0.010	17.58905	20.00000	Linear
33 Extractable TPH	280	296	36364	0.010	5.81971	20.00000	Linear
8 O-Terphenyl	8.00000	8.31292	41358	0.010	3.91155	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20378A.D
Report Date: 03-Dec-2013 12:12

Katahdin Analytical Services

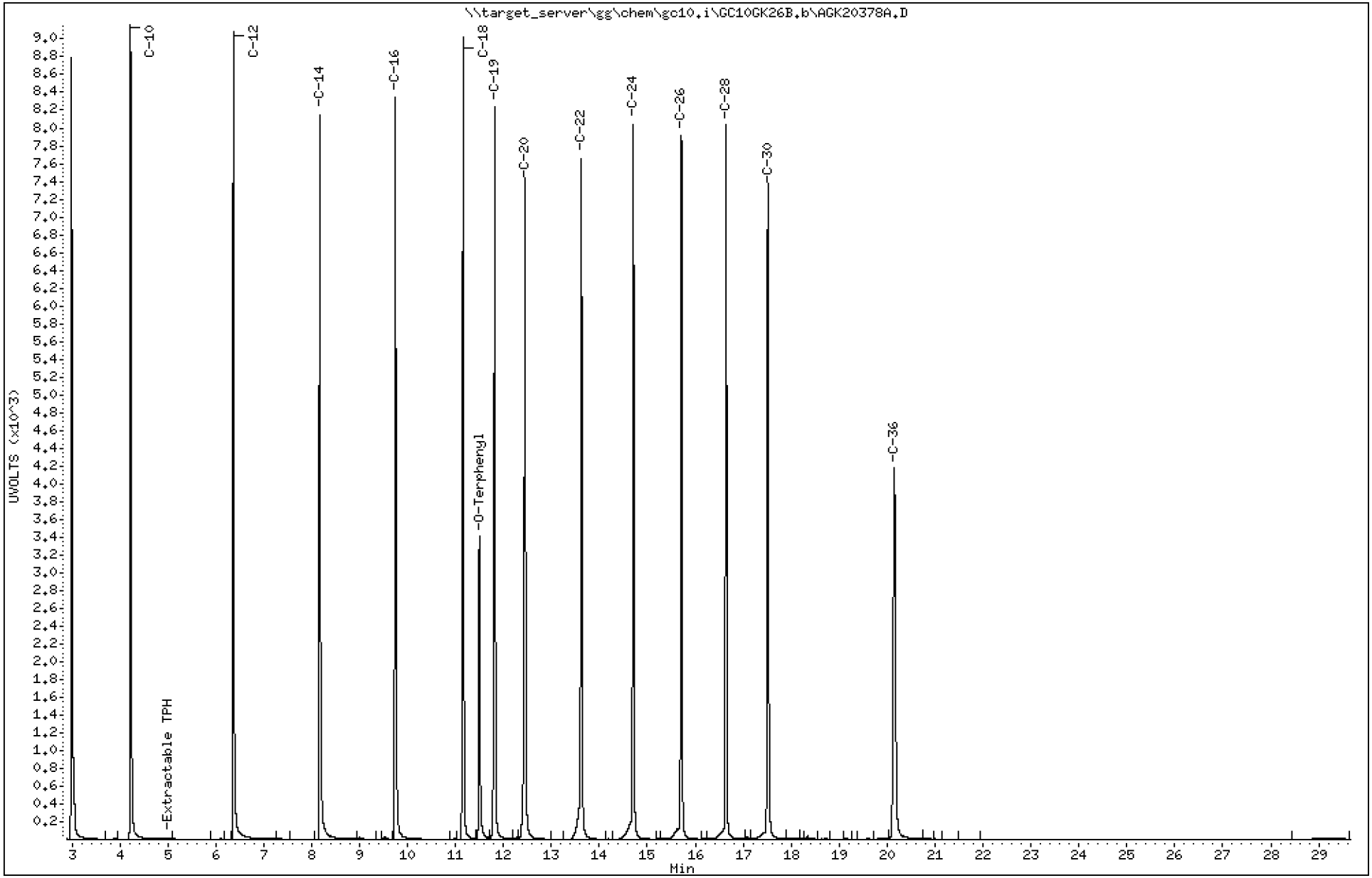
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20378A.D
Lab Smp Id: WG135478-2
Inj Date : 26-NOV-2013 20:54
Operator : AC   Inst ID: gc10.i
Smp Info : WG135478-2,WE40-1
Misc Info : WG135478,WG135478,WG126180-3,SG9180-11
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 27-Nov-2013 08:28 acronin   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	3 C-10	4.224	4.256	-0.032	757042	50.0000	21.3	
	4 C-12	6.369	6.403	-0.034	748178	50.0000	21.0	
	5 C-14	8.169	8.204	-0.035	771156	50.0000	21.7	
	6 C-16	9.746	9.784	-0.038	788847	50.0000	22.2	
	7 C-18	11.160	11.202	-0.042	788671	50.0000	22.3	
$	8 O-Terphenyl	11.499	11.536	-0.037	330864	20.0000	8.31	
	9 C-19	11.818	11.861	-0.043	798606	50.0000	22.9	
	11 C-20	12.448	12.489	-0.041	794120	50.0000	22.8	
	12 C-22	13.624	13.666	-0.042	794549	50.0000	22.8	
	13 C-24	14.708	14.749	-0.041	800693	50.0000	23.1	
	14 C-26	15.710	15.751	-0.041	794031	50.0000	23.4	
	15 C-28	16.642	16.683	-0.041	797270	50.0000	23.7	
	16 C-30	17.514	17.553	-0.039	799434	50.0000	25.7	
	17 C-36	20.152	20.210	-0.058	749345	50.0000	23.5	
M	33 Extractable TPH				10181942	700.000	296	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20378A.D
Date : 26-NOV-2013 20:54
Client ID:
Instrument: gc10.i
Sample Info: WG135478-2,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000359

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 (6030727 **SDG:** WE40-1
Lab ID : WG135478-3 **Analytical Date:** 12/02/13 13:29
Lab File ID : AGL20006.D **Instrument ID:** GC10
Initial Calibration Date(s): 06/21/13 11:59 06/21/13 14:19 **Column ID:** A

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
3 C-10	50.00000	45.35676	31851	0.010	-9.28648	20.00000	Linear
4 C-12	50.00000	46.12425	32377	0.010	-7.75150	20.00000	Linear
5 C-14	50.00000	46.65915	32621	0.010	-6.68169	20.00000	Linear
6 C-16	50.00000	46.89881	32790	0.010	-6.20237	20.00000	Linear
7 C-18	50.00000	47.26911	32869	0.010	-5.46178	20.00000	Linear
9 C-19	50.00000	47.72998	32813	0.010	-4.54004	20.00000	Linear
11 C-20	50.00000	47.86065	32792	0.010	-4.27870	20.00000	Linear
12 C-22	50.00000	48.18889	32844	0.010	-3.62223	20.00000	Linear
13 C-24	50.00000	48.13073	32841	0.010	-3.73854	20.00000	Linear
14 C-26	50.00000	48.76621	32405	0.010	-2.46757	20.00000	Linear
15 C-28	50.00000	48.96931	32242	0.010	-2.06137	20.00000	Linear
16 C-30	50.00000	51.11849	31953	0.010	2.23698	20.00000	Linear
17 C-36	50.00000	50.14193	31012	0.010	0.28386	20.00000	Linear
33 Extractable TPH	700	623	30101	0.010	-10.96939	20.00000	Linear
8 O-Terphenyl	20.00000	17.58886	34315	0.010	-12.05568	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20006.D
Report Date: 03-Dec-2013 12:14

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20006.D
Lab Smp Id: WG135478-3
Inj Date : 02-DEC-2013 13:29
Operator : AC   Inst ID: gc10.i
Smp Info : WG135478-3,WE40-1
Misc Info : WG135478,WG135478,WG126180-3,SG9044-1
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:09 acronin   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

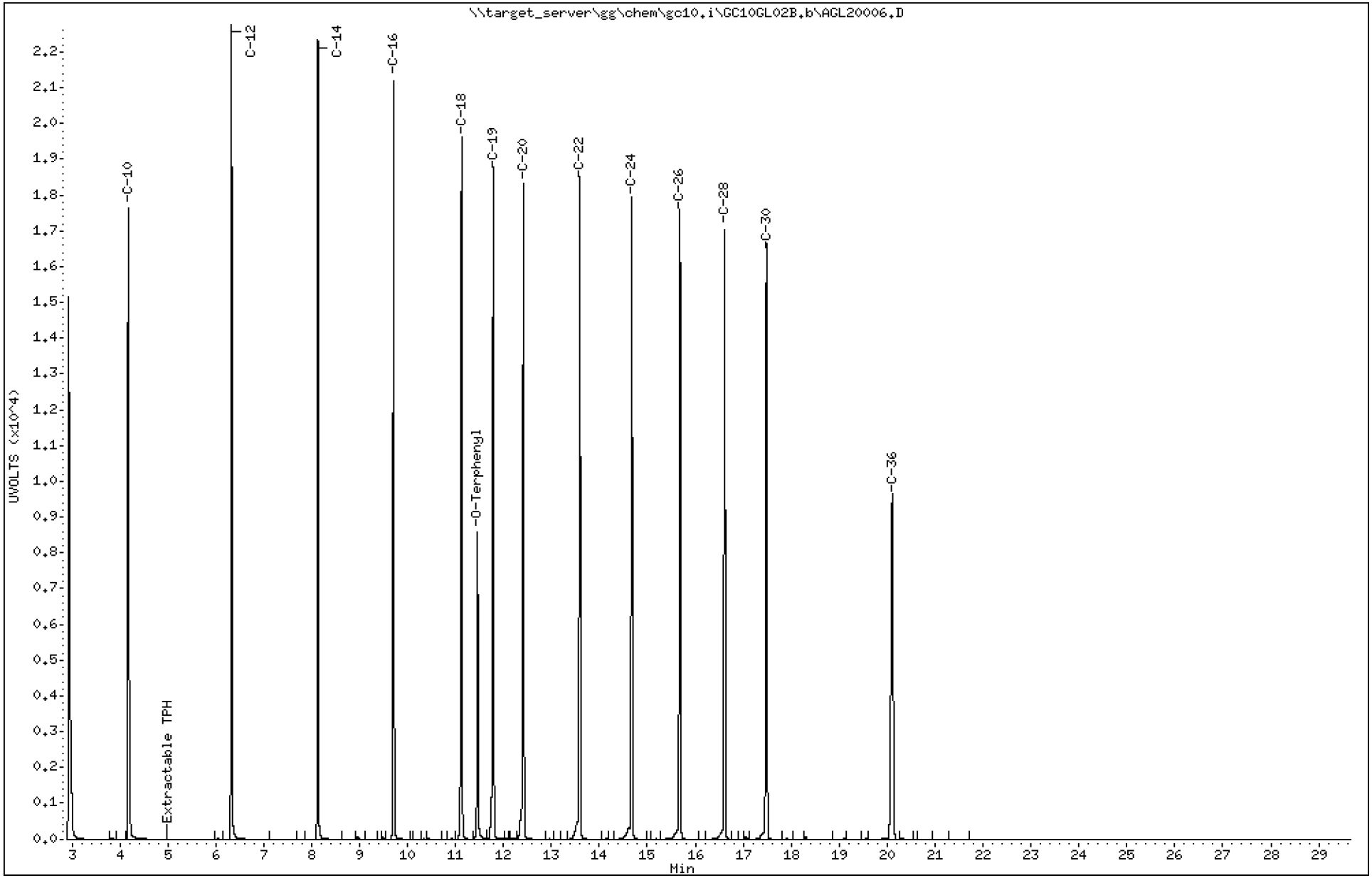
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	3 C-10	4.175	4.256	-0.081	1592555	50.0000	45.4	
	4 C-12	6.329	6.403	-0.074	1618847	50.0000	46.1	
	5 C-14	8.129	8.204	-0.075	1631046	50.0000	46.6	
	6 C-16	9.708	9.784	-0.076	1639511	50.0000	46.9	
	7 C-18	11.126	11.202	-0.076	1643473	50.0000	47.3	
$	8 O-Terphenyl	11.459	11.536	-0.077	686307	20.0000	17.6	
	9 C-19	11.785	11.861	-0.076	1640648	50.0000	47.7	
	11 C-20	12.414	12.489	-0.075	1639607	50.0000	47.9	
	12 C-22	13.592	13.666	-0.074	1642201	50.0000	48.2	
	13 C-24	14.676	14.749	-0.073	1642045	50.0000	48.1	
	14 C-26	15.679	15.751	-0.072	1620259	50.0000	48.8	
	15 C-28	16.611	16.683	-0.072	1612114	50.0000	49.0	
	16 C-30	17.483	17.553	-0.070	1597671	50.0000	51.1	
	17 C-36	20.105	20.210	-0.105	1550580	50.0000	50.1	
M	33 Extractable TPH				21070557	700.000	623	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20006.D
Date : 02-DEC-2013 13:29
Client ID:
Sample Info: WG135478-3,WE40-1

Column phase: ZB-1

Instrument: gc10.i

Operator: AC
Column diameter: 0.25



Katahdin Analytical Services 0000362

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 (6030727 **SDG:** WE40-1
Lab ID : WG135478-4 **Analytical Date:** 12/02/13 20:35
Lab File ID : AGL20018.D **Instrument ID:** GC10
Initial Calibration Date(s): 06/21/13 11:59 06/21/13 14:19 **Column ID:** A

	Compound	RRF/Amount	RF20	CCAL RRF20	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
3	C-10	20.00000	20.61324	36704	0.010	3.06619	20.00000	Linear
4	C-12	20.00000	20.86098	37218	0.010	4.30491	20.00000	Linear
5	C-14	20.00000	21.23631	37756	0.010	6.18156	20.00000	Linear
6	C-16	20.00000	21.30437	37962	0.010	6.52185	20.00000	Linear
7	C-18	20.00000	21.37601	37896	0.010	6.88007	20.00000	Linear
9	C-19	20.00000	21.58971	37766	0.010	7.94855	20.00000	Linear
11	C-20	20.00000	21.57064	37642	0.010	7.85320	20.00000	Linear
12	C-22	20.00000	21.70760	37896	0.010	8.53801	20.00000	Linear
13	C-24	20.00000	22.00203	38133	0.010	10.01014	20.00000	Linear
14	C-26	20.00000	22.02170	37476	0.010	10.10850	20.00000	Linear
15	C-28	20.00000	22.18812	37424	0.010	10.94058	20.00000	Linear
16	C-30	20.00000	23.85197	37070	0.010	19.25984	20.00000	Linear
17	C-36	20.00000	23.79703	37887	0.010	18.98516	20.00000	Linear
33	Extractable TPH	280	284	34916	0.010	1.47133	20.00000	Linear
8	O-Terphenyl	8.00000	7.95832	39660	0.010	-0.52099	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20018.D
Report Date: 03-Dec-2013 12:15

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20018.D
Lab Smp Id: WG135478-4
Inj Date : 02-DEC-2013 20:35
Operator : AC   Inst ID: gc10.i
Smp Info : WG135478-4,WE40-1
Misc Info : WG135478,WG135478,WG126180-3,SG9044-1
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:09 acronin   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

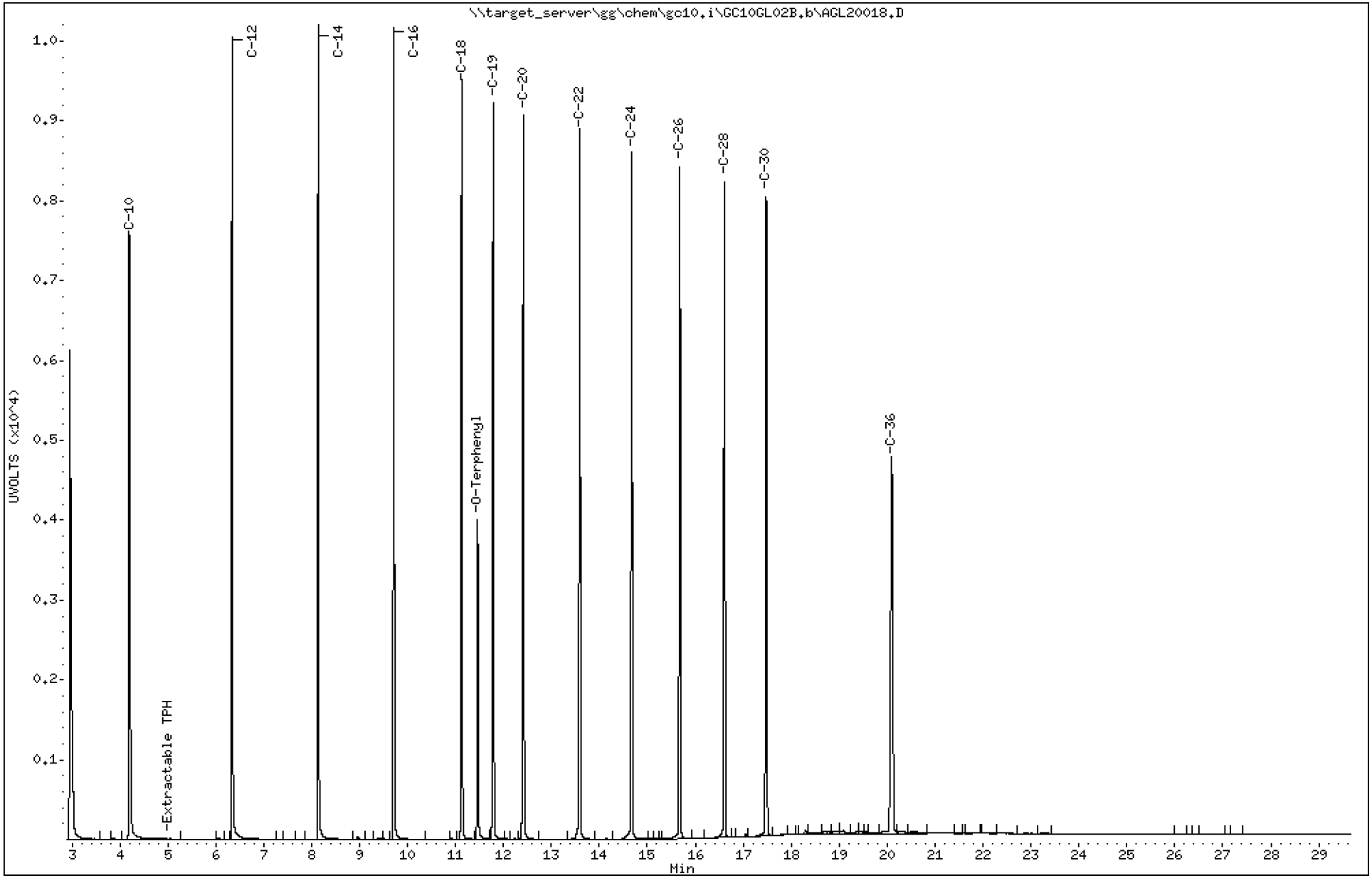
						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	3 C-10	4.198	4.256	-0.058	734084	50.0000	20.6	
	4 C-12	6.341	6.403	-0.062	744360	50.0000	20.9	
	5 C-14	8.137	8.204	-0.067	755120	50.0000	21.2	
	6 C-16	9.713	9.784	-0.071	759244	50.0000	21.3	
	7 C-18	11.129	11.202	-0.073	757920	50.0000	21.4	
$	8 O-Terphenyl	11.462	11.536	-0.074	317276	20.0000	7.96	
	9 C-19	11.786	11.861	-0.075	755326	50.0000	21.6	
	11 C-20	12.414	12.489	-0.075	752832	50.0000	21.6	
	12 C-22	13.591	13.666	-0.075	757922	50.0000	21.7	
	13 C-24	14.674	14.749	-0.075	762650	50.0000	22.0	
	14 C-26	15.676	15.751	-0.075	749529	50.0000	22.0	
	15 C-28	16.609	16.683	-0.074	748477	50.0000	22.2	
	16 C-30	17.479	17.553	-0.074	741390	50.0000	23.8	
	17 C-36	20.096	20.210	-0.114	757748	50.0000	23.8	
M	33 Extractable TPH				9776602	700.000	284	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20018.D
Date : 02-DEC-2013 20:35
Client ID:
Sample Info: WG135478-4,WE40-1

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000365

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04 (6030727 **SDG:** WE40-1
Lab ID : WG135478-5 **Analytical Date:** 12/03/13 11:26
Lab File ID : AGL20026.D **Instrument ID:** GC10
Initial Calibration Date(s): 06/21/13 11:59 06/21/13 14:19 **Column ID:** A

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
3	C-10	50.00000	50.13982	35170	0.010	0.27963	20.00000	Linear
4	C-12	50.00000	50.67777	35529	0.010	1.35554	20.00000	Linear
5	C-14	50.00000	51.24137	35778	0.010	2.48274	20.00000	Linear
6	C-16	50.00000	51.54681	35987	0.010	3.09362	20.00000	Linear
7	C-18	50.00000	51.95222	36073	0.010	3.90445	20.00000	Linear
9	C-19	50.00000	52.41787	35988	0.010	4.83573	20.00000	Linear
11	C-20	50.00000	52.44315	35884	0.010	4.88630	20.00000	Linear
12	C-22	50.00000	52.89337	35986	0.010	5.78674	20.00000	Linear
13	C-24	50.00000	52.88610	36042	0.010	5.77219	20.00000	Linear
14	C-26	50.00000	53.54372	35516	0.010	7.08745	20.00000	Linear
15	C-28	50.00000	54.10751	35556	0.010	8.21502	20.00000	Linear
16	C-30	50.00000	56.73823	35483	0.010	13.47646	20.00000	Linear
17	C-36	50.00000	57.87060	35663	0.010	15.74119	20.00000	Linear
33	Extractable TPH	700	688	33190	0.010	-1.64878	20.00000	Linear
8	O-Terphenyl	20.00000	19.34140	37673	0.010	-3.29302	20.00000	Linear

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20026.D
Report Date: 03-Dec-2013 12:15

Katahdin Analytical Services

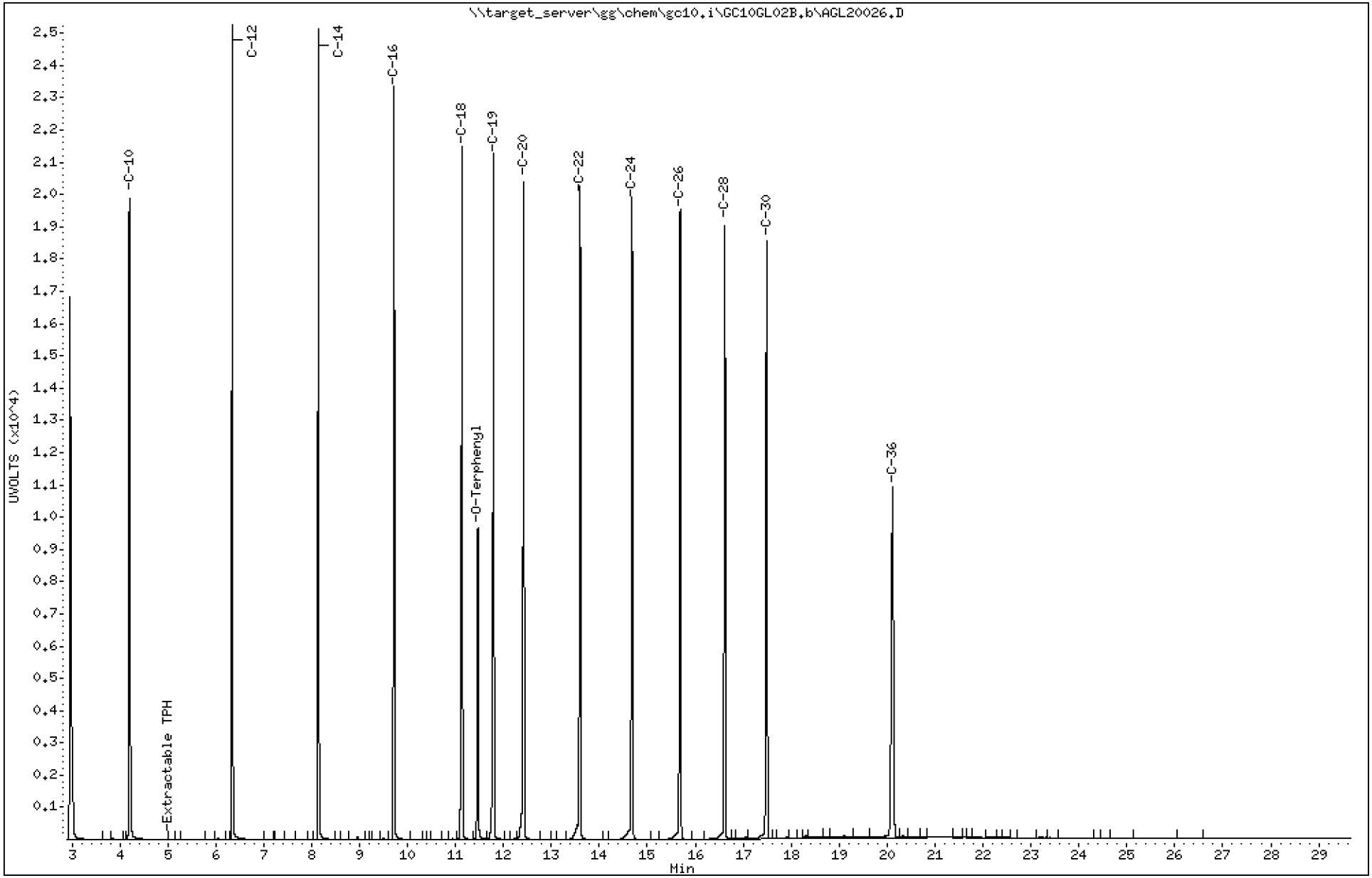
Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20026.D
Lab Smp Id: WG135478-5
Inj Date : 03-DEC-2013 11:26
Operator : AC   Inst ID: gc10.i
Smp Info : WG135478-5,WE40-1
Misc Info : WG135478,WG135478,WG126180-3,SG9180-11
Comment   :
Method   : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:09 acronin   Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19   Cal File: AGF20129a.D
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: T8-D4700

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	3 C-10	4.199	4.256	-0.057	1758502	50.0000	50.1	
	4 C-12	6.344	6.403	-0.059	1776467	50.0000	50.7	
	5 C-14	8.141	8.204	-0.063	1788923	50.0000	51.2	
	6 C-16	9.718	9.784	-0.066	1799369	50.0000	51.5	
	7 C-18	11.134	11.202	-0.068	1803637	50.0000	52.0	
$	8 O-Terphenyl	11.465	11.536	-0.071	753462	20.0000	19.3	
	9 C-19	11.792	11.861	-0.069	1799418	50.0000	52.4	
	11 C-20	12.420	12.489	-0.069	1794177	50.0000	52.4	
	12 C-22	13.597	13.666	-0.069	1799296	50.0000	52.9	
	13 C-24	14.681	14.749	-0.068	1802093	50.0000	52.9	
	14 C-26	15.684	15.751	-0.067	1775802	50.0000	53.5	
	15 C-28	16.616	16.683	-0.067	1777810	50.0000	54.1	
	16 C-30	17.487	17.553	-0.066	1774154	50.0000	56.7	
	17 C-36	20.112	20.210	-0.098	1783169	50.0000	57.9	
M	33 Extractable TPH				23232817	700.000	688	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20026.D
Date : 03-DEC-2013 11:26
Client ID:
Instrument: gc10.i
Sample Info: WG135478-5,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000368

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG135097-1
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: AGK20367A.

Sample Date:
Received Date:
Extract Date: 25-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135097

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: NA
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36		10	mg/Kgdrywt	1	5	5.0	2.6	3.8
o-Terphenyl		92.4	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20367A.D
Report Date: 03-Dec-2013 12:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20367A.D
Lab Smp Id: WG135097-1 Client Smp ID: WG135097-Blank
Inj Date : 26-NOV-2013 14:30
Operator : AC Inst ID: gc10.i
Smp Info : WG135097-1,WE40-1
Misc Info : WG135478,WG135097,WG125981-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$	8 O-Terphenyl	11.489	11.536	-0.047	720249	18.4746	0.616	
S	10 Extractable TPH C10-C36	4.157-20.310			10878727	315.414	10.5(M)	M2

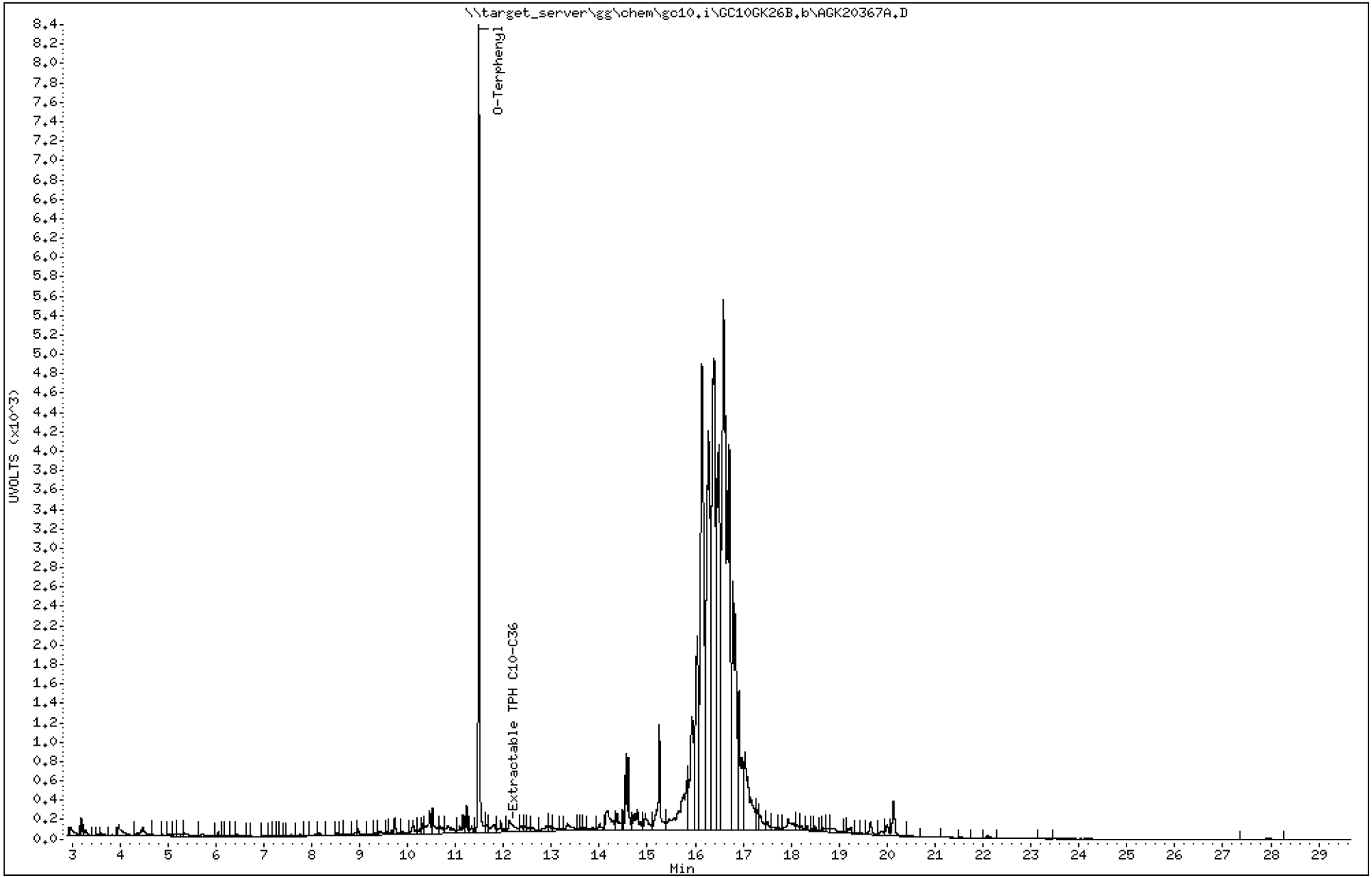
QC Flag Legend

M - Compound response manually integrated.

WJAS

1:07 pm, Dec 03, 2013

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20367A.D
Date : 26-NOV-2013 14:30
Client ID: WG135097-Blank
Instrument: gc10.i
Sample Info: WG135097-1,WE40-1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000372

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134891-1
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: AGK20370.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG134891

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: AQ
% Solids: NA
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	U	56.	ug/L	1	75	75.	9.1	56.
o-Terphenyl		84.5	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20370.D
Report Date: 03-Dec-2013 12:36

Katahdin Analytical Services

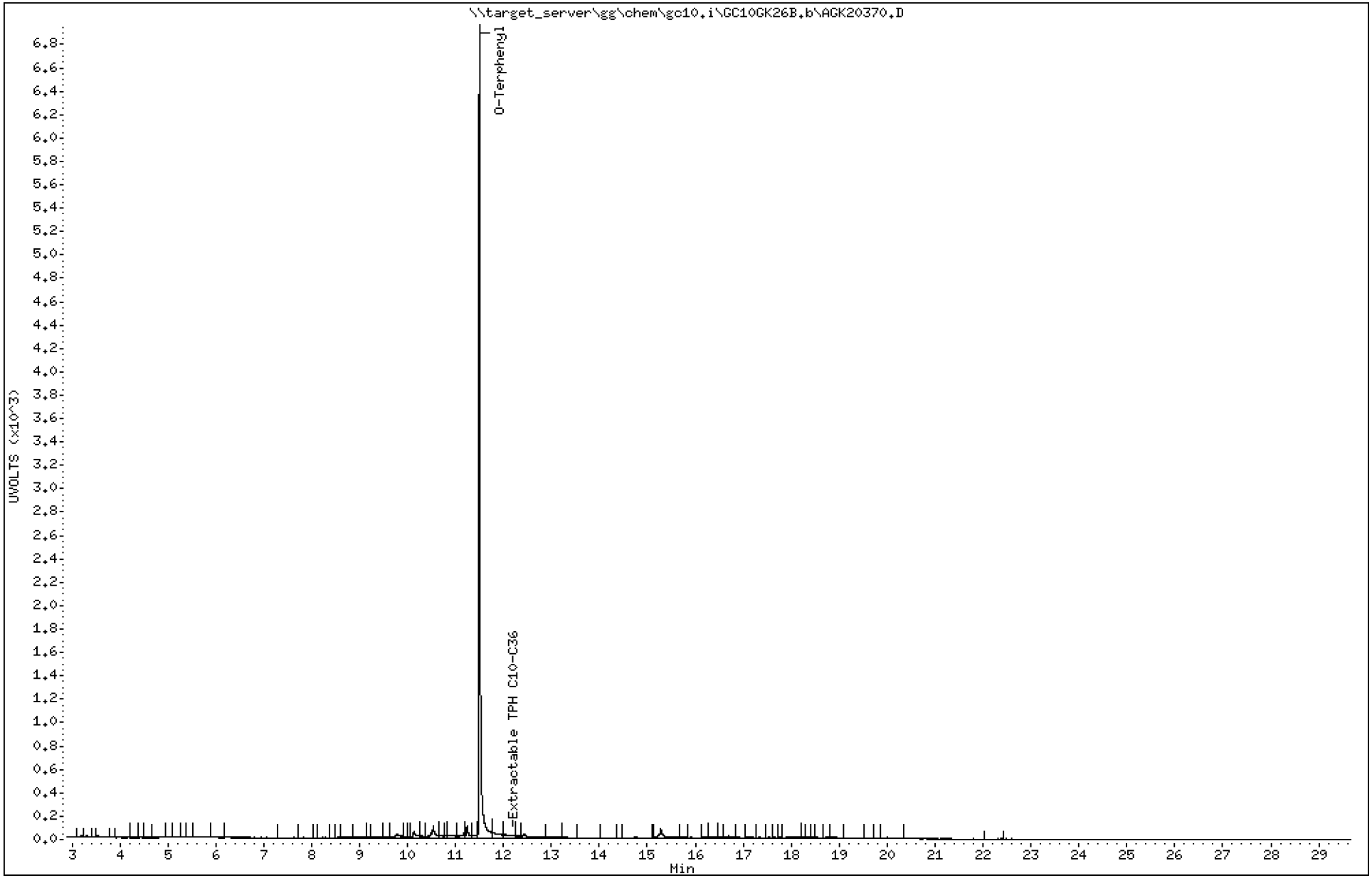
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20370.D
Lab Smp Id: WG134891-1 Client Smp ID: WG134891-Blank
Inj Date : 26-NOV-2013 16:15
Operator : AC Inst ID: gc10.i
Smp Info : WG134891-1,WE40-1
Misc Info : WG135478,WG134891,WG125981-3,SG9180-11
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 O-Terphenyl	11.499	11.536	-0.037	661354	16.9377	16.9	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20370.D
Date : 26-NOV-2013 16:15
Client ID: WG134891-Blank
Instrument: gc10.i
Sample Info: WG134891-1,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000375

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG135352-1
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: AGL20007.D

Sample Date:
Received Date:
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: NA
Report Date: 03-DEC-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Extractable TPH C10-C36	U	3.8	mg/Kgdrywt	1	5	5.0	2.6	3.8
o-Terphenyl		60.1	%					

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Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20007.D
Report Date: 03-Dec-2013 12:44

Katahdin Analytical Services

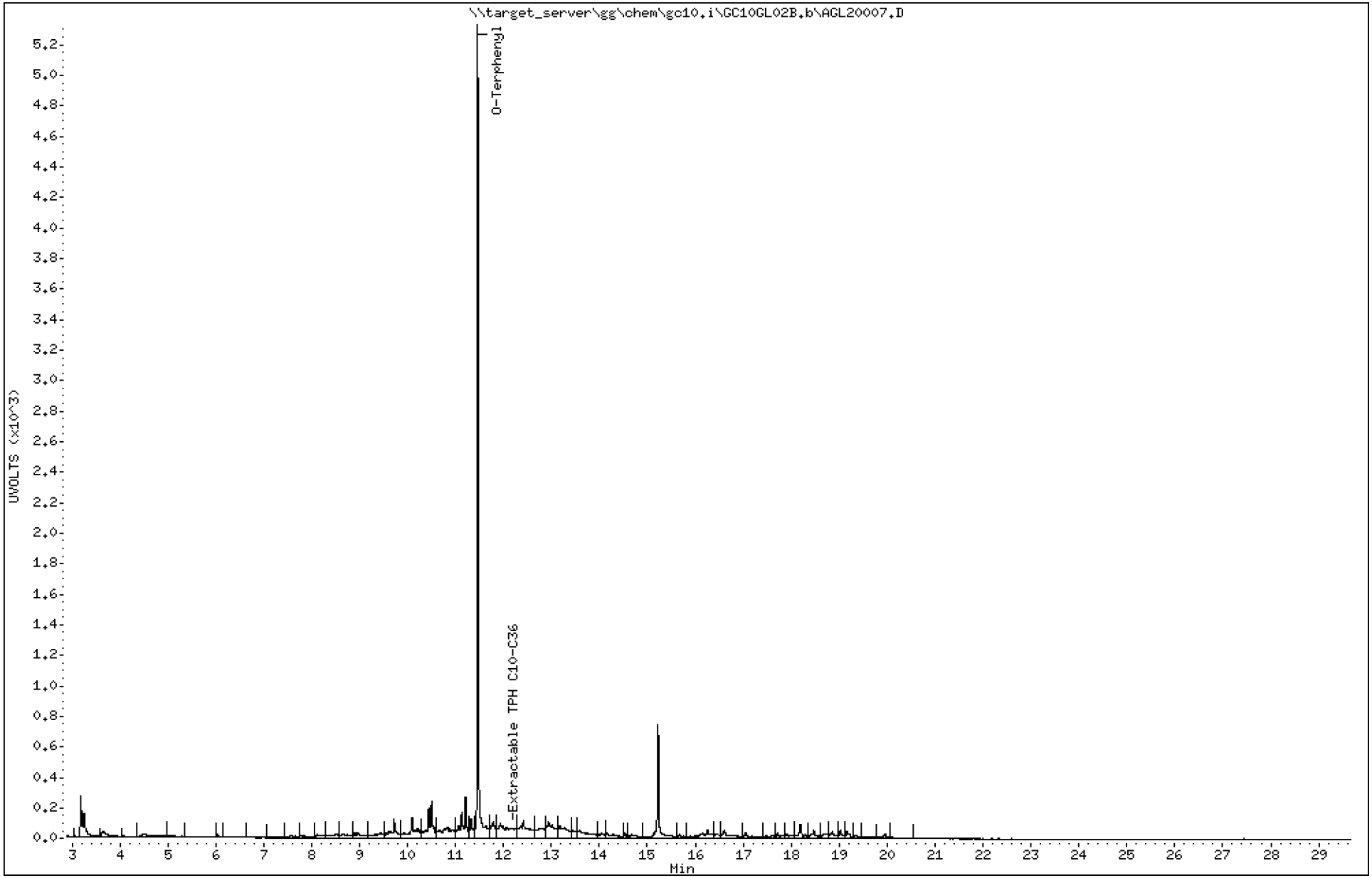
Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20007.D
Lab Smp Id: WG135352-1 Client Smp ID: WG135352-Blank
Inj Date : 02-DEC-2013 14:09
Operator : AC Inst ID: gc10.i
Smp Info : WG135352-1,WE40-1
Misc Info : WG135478,WG135352,WG126180-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.463	11.536	-0.073	473351	12.0314	0.401	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20007.D
Date : 02-DEC-2013 14:09
Client ID: WG135352-Blank
Instrument: gc10.i
Sample Info: WG135352-1,WE40-1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000378

LCS/LCSD Recovery Report

LCS ID: WG135097-2
LCSD ID: WG135097-3
Project:
SDG: WE40-1
Report Date: 03-DEC-13
LCS File ID: AGK20368A.

Received Date:
Extract Date: 25-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135097
LCSD File ID: AGK20369A.D

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Extractable TPH C10-C36	16.7	13.0	77.8	13.5	80.8	mg/Kgdrywt	4	50	56-124
o-Terphenyl			74.5		81.4				28-101

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Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20368A.D
Report Date: 03-Dec-2013 12:36

Katahdin Analytical Services

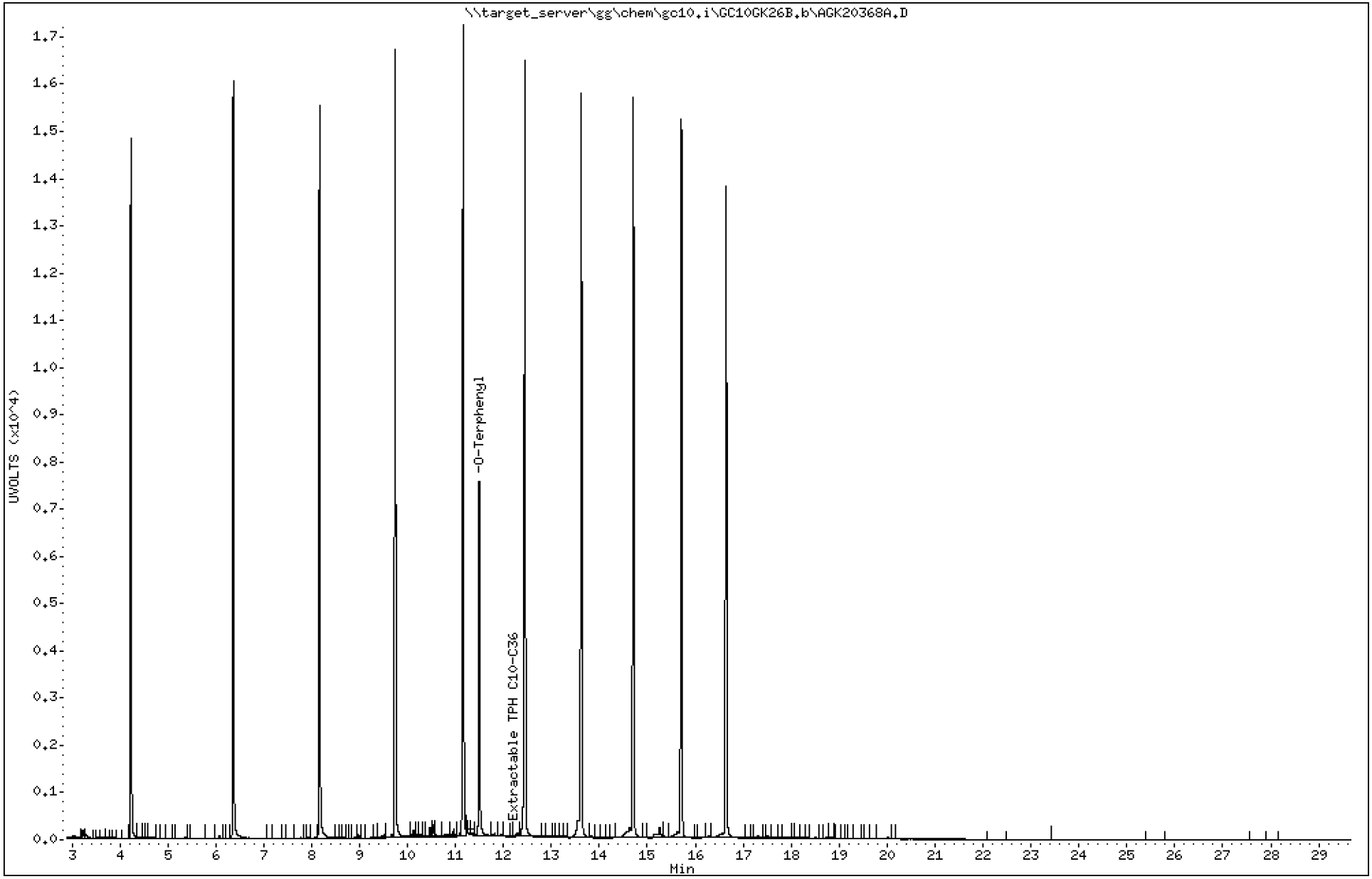
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20368A.D
Lab Smp Id: WG135097-2 Client Smp ID: WG135097-LCS
Inj Date : 26-NOV-2013 15:05
Operator : AC Inst ID: gc10.i
Smp Info : WG135097-2,WE40-1
Misc Info : WG135478,WG135097,WG125981-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
Compounds	RT	EXP RT	DLT RT	RESPONSE				
$ 8 O-Terphenyl	11.495	11.536	-0.041	583280		14.9002	0.497	
S 10 Extractable TPH C10-C36	4.157-20.310			13355733		389.548	13.0	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20368A.D
Date : 26-NOV-2013 15:05
Client ID: WG135097-LCS
Instrument: gc10.i
Sample Info: WG135097-2,WE40-1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000381

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20369A.D
Report Date: 03-Dec-2013 12:36

Katahdin Analytical Services

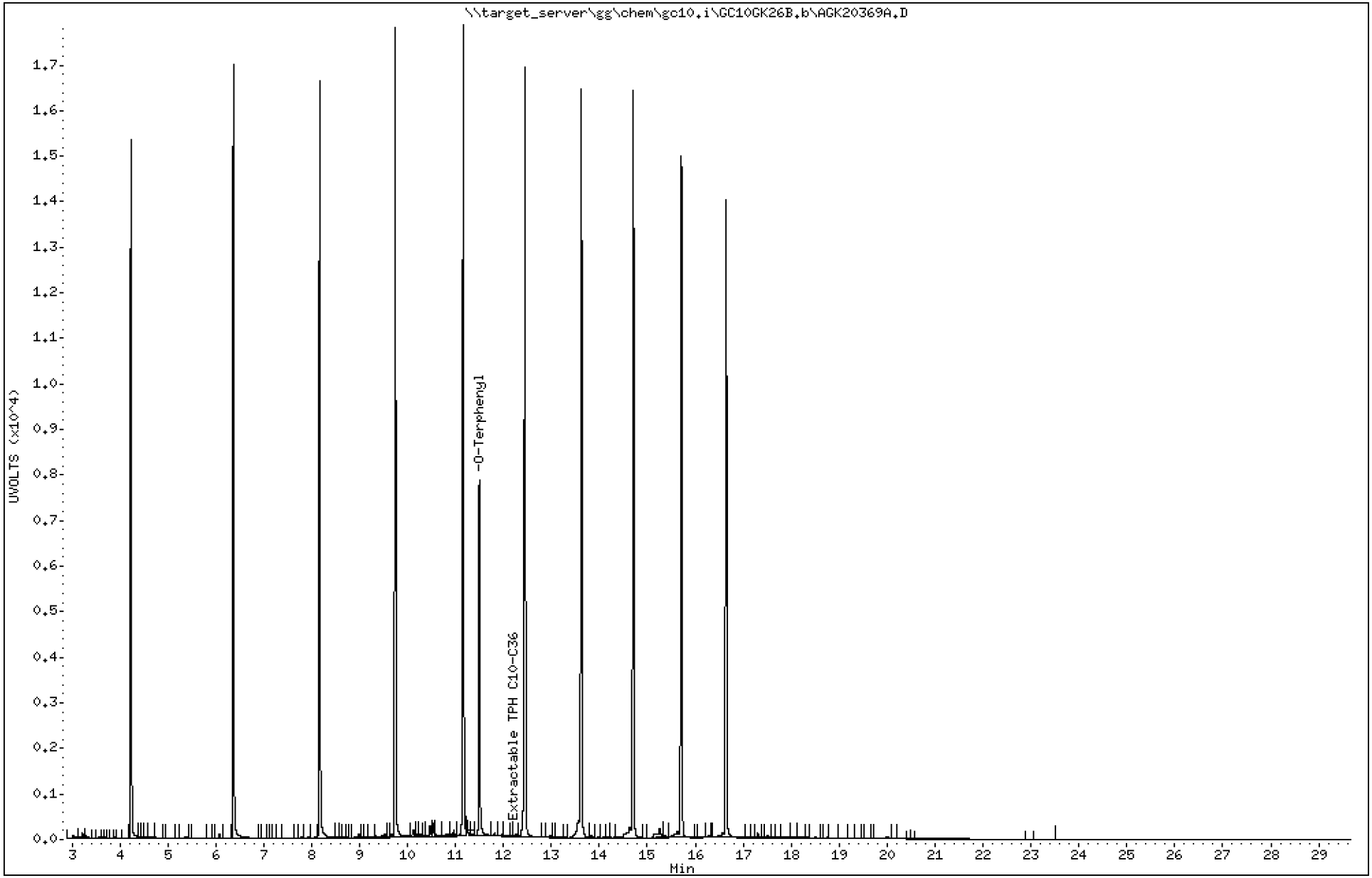
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20369A.D
Lab Smp Id: WG135097-3 Client Smp ID: WG135097-LCSD
Inj Date : 26-NOV-2013 15:40
Operator : AC Inst ID: gc10.i
Smp Info : WG135097-3,WE40-1
Misc Info : WG135478,WG135097,WG125981-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kgdrywt)	
Compounds	RT	EXP RT	DLT RT	RESPONSE				REVIEW CODE
$ 8 O-Terphenyl	11.496	11.536	-0.040	637077		16.3041	0.543	
S 10 Extractable TPH C10-C36	4.157	-20.310		13914859		406.282	13.5	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20369A.D
Date : 26-NOV-2013 15:40
Client ID: WG135097-LCSD
Instrument: gc10.i
Sample Info: WG135097-3,WE40-1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000383

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG134891-2
LCSD ID: WG134891-3
Project:
SDG: WE40-1
Report Date: 03-DEC-13
LCS File ID: AGK20371.D

Received Date:
Extract Date: 22-NOV-13
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG134891
LCSD File ID: AGK20372.D

Analysis Date: 26-NOV-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Extractable TPH C10-C36	500.	320.	64.0	403.	80.6	ug/L	23	30	45-118
o-Terphenyl			77.5		89.0				51-103

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20371.D
Report Date: 03-Dec-2013 12:37

Katahdin Analytical Services

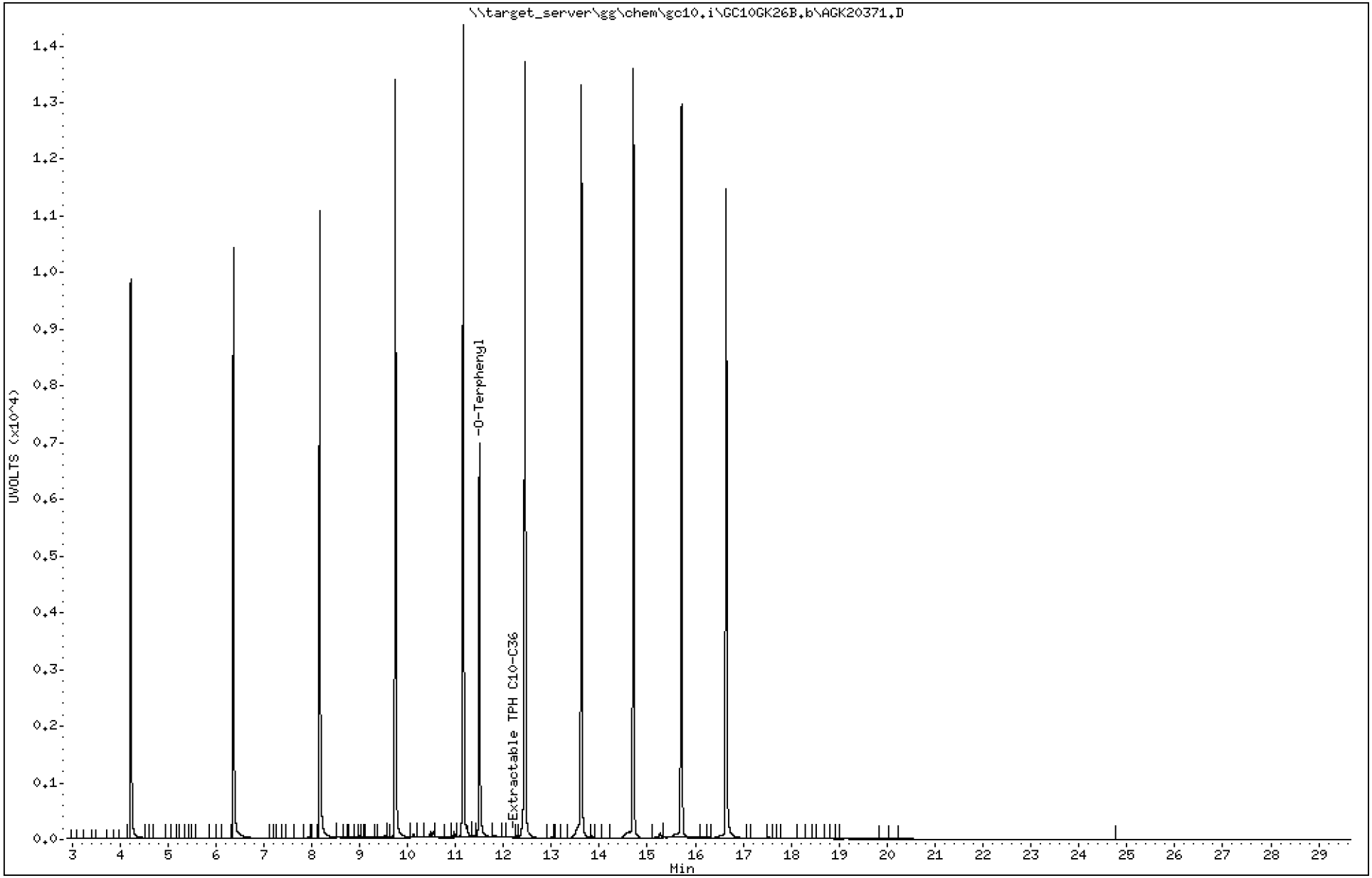
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20371.D
Lab Smp Id: WG134891-2 Client Smp ID: WG134891-LCS
Inj Date : 26-NOV-2013 16:50
Operator : AC Inst ID: gc10.i
Smp Info : WG134891-2,WE40-1
Misc Info : WG135478,WG134891,WG125981-3,SG9180-11
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	
Compounds		RT	EXP RT	DLT RT	RESPONSE			REVIEW CODE
$	8 O-Terphenyl	11.498	11.536	-0.038	606456	15.5050	15.5	
S	10 Extractable TPH C10-C36	4.157	-20.310		11019683	319.632	320	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20371.D
Date : 26-NOV-2013 16:50
Client ID: WG134891-LCS
Instrument: gc10.i
Sample Info: WG134891-2,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000386

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20372.D
Report Date: 03-Dec-2013 12:37

Katahdin Analytical Services

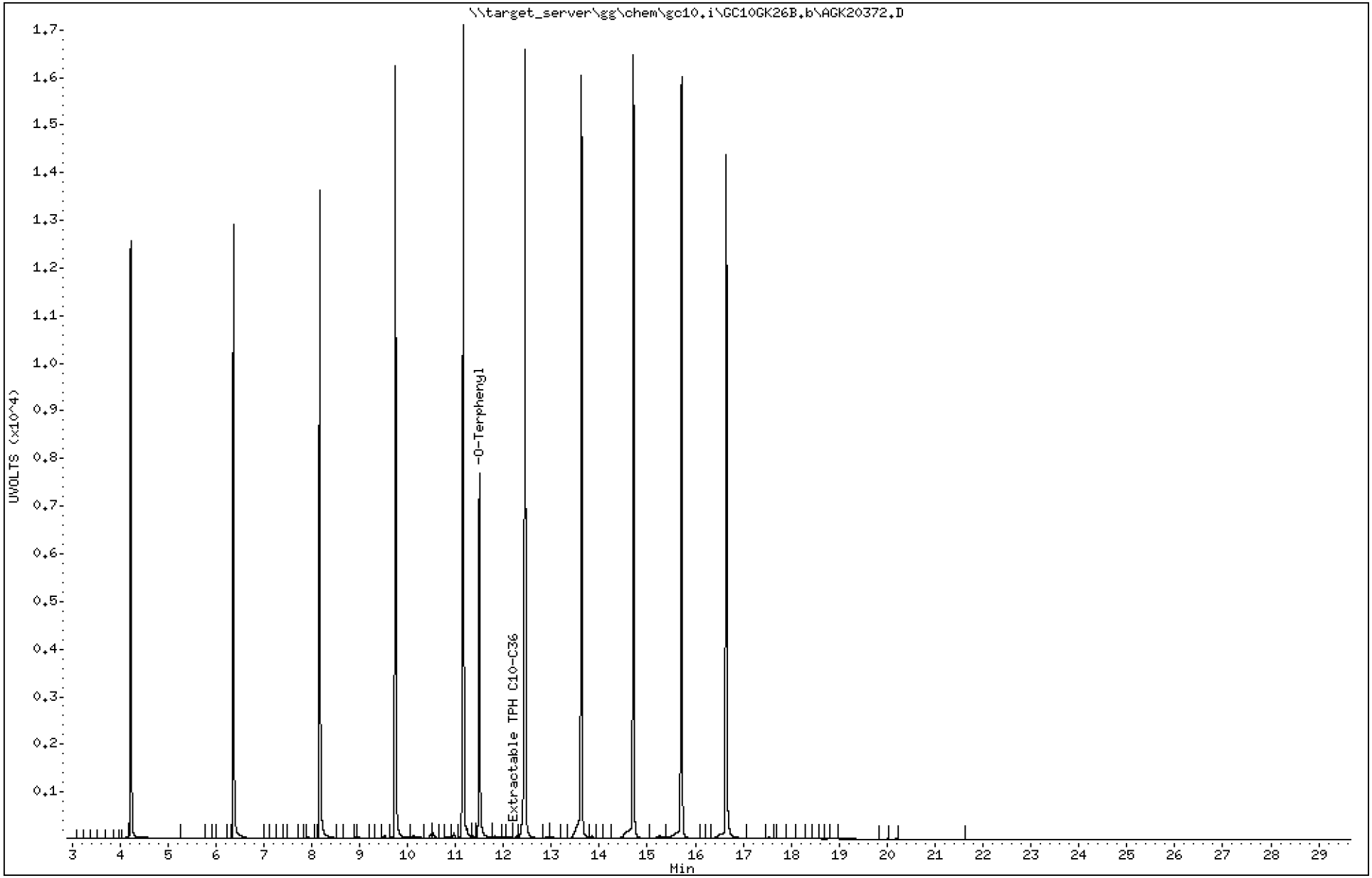
Data file : \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20372.D
Lab Smp Id: WG134891-3 Client Smp ID: WG134891-LCSD
Inj Date : 26-NOV-2013 17:25
Operator : AC Inst ID: gc10.i
Smp Info : WG134891-3,WE40-1
Misc Info : WG135478,WG134891,WG125981-3,SG9180-11
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GK26B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	
Compounds		RT	EXP RT	DLT RT	RESPONSE			REVIEW CODE
$	8 O-Terphenyl	11.498	11.536	-0.038	695420	17.8267	17.8	
S	10 Extractable TPH C10-C36	4.157	-20.310		13802188	402.910	403	

Data File: \\target_server\gg\chem\gc10.i\GC10GK26B.b\AGK20372.D
Date : 26-NOV-2013 17:25
Client ID: WG134891-LCSD
Instrument: gc10.i
Sample Info: WG134891-3,WE40-1
Purge Volume: 1.0
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000388

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG135352-2
LCSD ID: WG135352-3
Project:
SDG: WE40-1
Report Date: 03-DEC-13
LCS File ID: AGL20008.D

Received Date:
Extract Date: 29-NOV-13
Extracted By: JMS
Extraction Method: SW846 3550
Lab Prep Batch: WG135352
LCSD File ID: AGL20009.D

Analysis Date: 02-DEC-13
Analyst: AC
Analysis Method: SW846 M8100
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Extractable TPH C10-C36	16.7	11.2	67.1	11.6	69.5	mg/Kgdrywt	4	50	56-124
o-Terphenyl			60.4		67.3				28-101

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20008.D
Report Date: 03-Dec-2013 12:44

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20008.D
Lab Smp Id: WG135352-2 Client Smp ID: WG135352-LCS
Inj Date : 02-DEC-2013 14:44
Operator : AC Inst ID: gc10.i
Smp Info : WG135352-2,WE40-1
Misc Info : WG135478,WG135352,WG126180-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

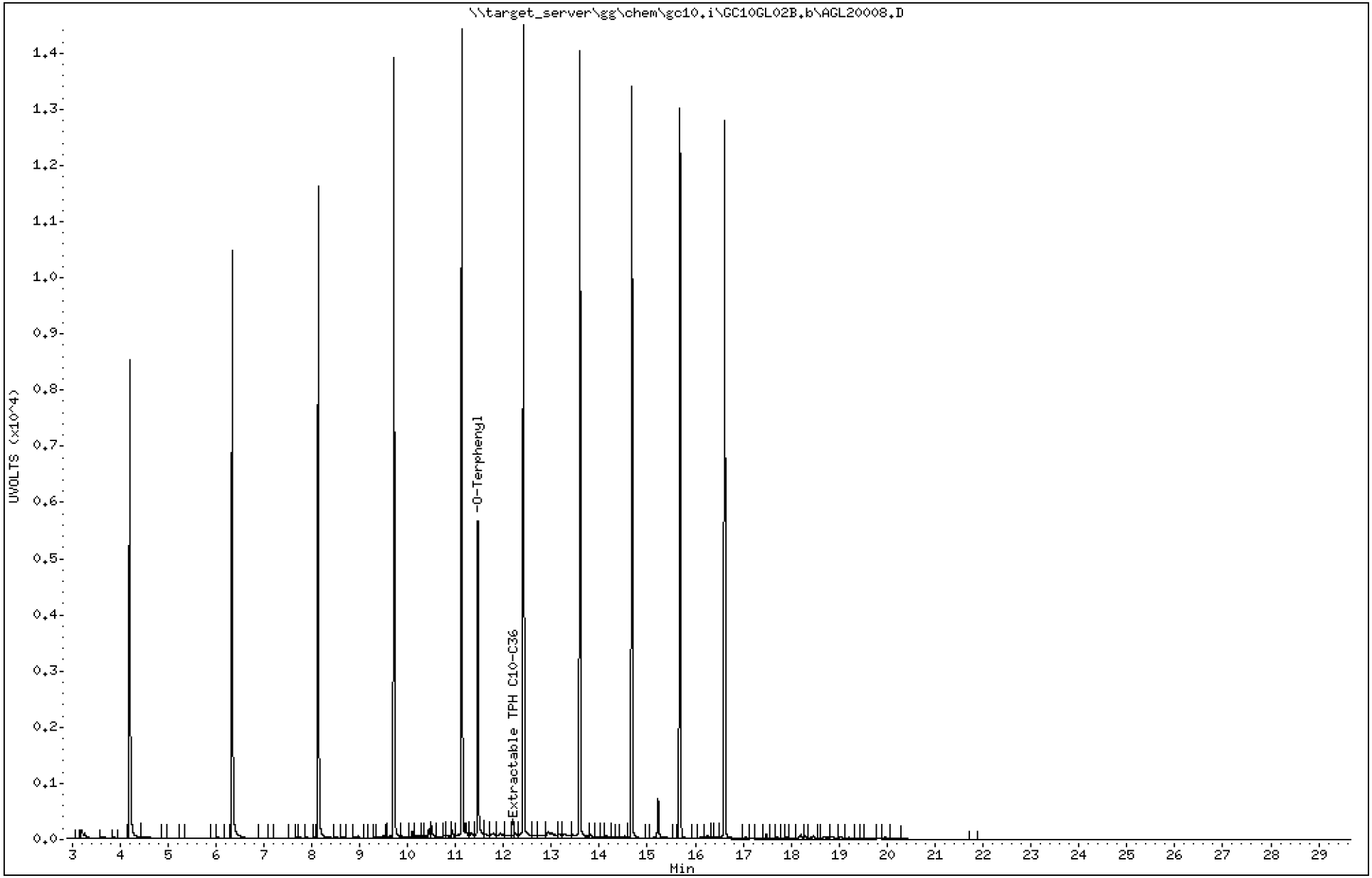
						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.466	11.536	-0.070	475934		12.0988	0.403	
S 10 Extractable TPH C10-C36	4.157	-20.310		11518456		334.560	11.2	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20008.D
Date : 02-DEC-2013 14:44
Client ID: WG135352-LCS
Sample Info: WG135352-2,WE40-1

Instrument: gc10.i

Operator: AC
Column diameter: 0.25

Column phase: ZB-1



Katahdin Analytical Services 0000391

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20009.D
Report Date: 03-Dec-2013 12:44

Katahdin Analytical Services

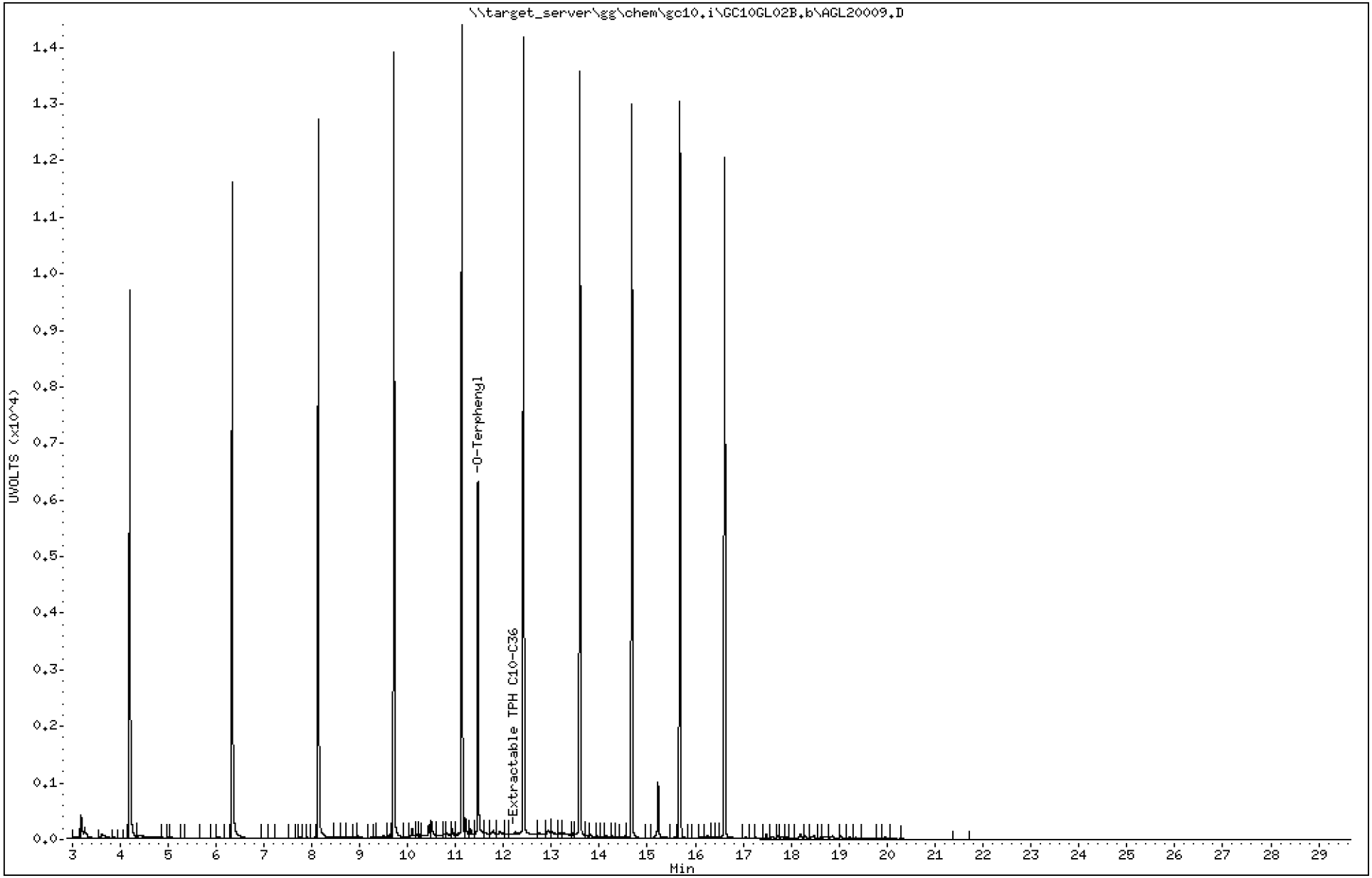
Data file : \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20009.D
Lab Smp Id: WG135352-3 Client Smp ID: WG135352-LCSD
Inj Date : 02-DEC-2013 15:19
Operator : AC Inst ID: gc10.i
Smp Info : WG135352-3,WE40-1
Misc Info : WG135478,WG135352,WG126180-3,SG9044-1
Comment :
Method : \\target_server\gg\chem\gc10.i\GC10GL02B.b\tph07bwe40.m
Meth Date : 03-Dec-2013 12:27 wstone Quant Type: ESTD
Cal Date : 21-JUN-2013 14:19 Cal File: AGF20129a.D
Als bottle: 51 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-TPH.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03000	Weight of Sample (Kg)
M	0.00000	Moisture (%)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
						ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE		(ug/ml)	(mg/Kgdrywt)	REVIEW CODE
$ 8 O-Terphenyl	11.466	11.536	-0.070	528718		13.4763	0.449	
S 10 Extractable TPH C10-C36	4.157-20.310			11953781		347.589	11.6	

Data File: \\target_server\gg\chem\gc10.i\GC10GL02B.b\AGL20009.D
Date : 02-DEC-2013 15:19
Client ID: WG135352-LCSD
Instrument: gc10.i
Sample Info: WG135352-3,WE40-1
Operator: AC
Column phase: ZB-1
Column diameter: 0.25



Katahdin Analytical Services 0000393

Logbooks and Supporting Documents

DRO/TPH ...

SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS FUEL OILS

Extraction Method: (check one)	SW846 3510 (SEP) ✓			SW846 3520 (CLLE)				
Analytical Method: (check one)	SW8015M (DRO) ✓	SW8100M (TPH) ✓	MADEP EPH ✓	ME DEP 4.1.25	FLO PRO	CT ETPH	TX 1005	Other:

Spike ID: GCL249	Surrogate ID: GCL503	Frac. Surrogate ID:	Other:
MeCl2 Lot #: DJ 391	Acetone Lot #: —	n-Pentane Lot #: —	Hexane Lot #:: —
NaSO4 Lot # 27963003	Filter Paper Lot # (KD) F0007930	Nitrogen Water Bath Temperature: 37°C	Vial Lot #:
Sample pH checked prior to extraction?	Yes ~~SZ~~ No	Note unpreserved samples in comments section.	
Blank and LCSs adjusted to pH < 2?	Yes ~~SZ~~ No	Prep Start Time: 1030	CLLE Start Time:
HCl Lot # 25548		Prep End Time: 12:20	CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location P0594	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-22-13	MM	WG134891-1	1000	1	NR	1mL	11-22-13	MMB	E8							R255845
↓	↓	WG134892-1	↓	↓	↓	↓	↓	↓	E9							R255846
		WG134891-2														
		WG134892-2							E9							
		WG134891-3														
		WG134892-3							E10							
																11-22-13

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location P0595	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-22-13	MM	SG-9057-1 I	1046	1	NR	1mL	11-22-13	MMB	A1							
↓	↓	-2 H	1000	↓	↓	↓	↓	↓	A2							
		-3 H	1030						A3							
		SG-9079-4 D	1060						A4							5 ss cont - 6 rounds.
		-5 D	1060						A5							
		-6 D	1060						A6							
		-7 D	1060						A7							
		-8 E	1060						A8							
		SG-9120-5 D	1060						A9							
		SG-9156-2 A	1040						A10							
		-4 A	1050						B1							
		-6 A	1060						B2							
		-8 A	1040						B3							
		-11 A	1060						B4							
		SG-9157-2 A	1040						B5							
		SG-9158-2 A	1060						B6							
		SG-9163-2 D	1060						B7					11-22-13		remainder 5 ss for rounds
↓	↓	SG-9180-11 H	1060	↓	↓	↓	↓	↓	B8							
																11-22-13

Katahdin Analytical Services 0000395

Dora TPH SON

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - SOIL FUEL OILS

Extraction Method: (check one)	SW846 3540 (SOX)	SW846 3546 (MICRO)	SW846 3550 (SONIC.) ✓
Analytical Method: (check one)	SW8015M (DRO)	SW8100M (TPH) ✓	MADEP EPH / ME DEP 4.1.25 / FLO PRO / CT ETPH / TX 1005 / Other:
Spike ID: QC1295	Surrogate ID: GC1303, GC1311	Frac. Surrogate ID:	Other:
MeCl2 Lot #: DJ391	Acetone Lot #: 59692	n-Pentane Lot #: —	Hexane Lot #: —
Filter Paper Lot # (SON): F0007395	Filter Paper Lot # (KD): FC007930	NaSO4 (Granular) Lot # 27963003	NaSO4 (Powder) Lot #: 27973002
Vial Lot #:	Balance ID: Mettler PJ400	Sonicator Horns Tuned? E2090	Nitrogen Water Bath Temperature: 37°C
Prep Start Time: 10:00	Prep End Time: 13:00	Sox/Micro Start Time:	Sox/Micro End Time:

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location F0595	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-25-13	JMS	WG1350971	30.9	1mL	NR	1mL	11-25-13	WAS	B9							R256198
		-2	29.99		1mL				B10							
		-3	30.03						C1							
		-4	31.68						C2							MS 569056-2 O
		-5	31.04						C3							MSD
		-6	31.15						C4							MS 569056-3 M
		-7	30.16						C5							MSD
		-8	31.50						C6							MS 569066-3 M
		-9	30.57						C7							MSD

WAS 11-25-13

EX-004 – Revision 2 – 10/01/2012

0000118

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location F0595	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-25-13	JMS	S690441 E	35.46	1mL	NR	1mL	11-25-13	WAS	C8							
		-2 E	34.80						C9							
		-3 E	31.13						C10							
		-4 E	31.72						D1							
		-5 E	30.03						D2							
		-6 E	30.84						D3							
		-7 E	30.97						D4							
		-8 E	30.14						D5							
		-9 E	32.27						D6							
		S690561 E	35.41						D7							wet, sulfur fuel odor
		-2 O	33.78						D8							MS/D wet fuel odor
		-3 M	30.30						D9							MS/D
		S690661 B	33.74			2mL			FV01 C8							
		-2 B	32.13			2mL			C9							
		-3 M	32.52			1mL			F0595 D10							w/o
		-4 B	34.45						E1							very wet

WAS 11-25-13

EX-004 – Revision 2 – 10/01/2012

0000119

TPH Re's JON

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - SOIL FUEL OILS

Extraction Method: (check one)	SW846 3540 (SOX)			SW846 3546 (MICRO)			SW846 3550 (SONIC.) ✓	
Analytical Method: (check one)	SW801SM (DRO)	SW8100M (TPH) ✓	MADEP EPH	ME DEP 4.1.25	FLO PRO	CT ETPH	TX 1005	Other:

Spike ID: CC1295	Surrogate ID: GC1311	Frac. Surrogate ID: —	Other:
MeCl2 Lot #: DJ554	Acetone Lot #: 59692	n-Pentane Lot #: —	Hexane Lot #:: —
Filter Paper Lot # (SON) R007395	Filter Paper Lot # (KD) FC007479	NaSO4 (Granular) Lot # 27963003	NaSO4 (Powder) Lot #: 27973002
Vial Lot #:	Balance ID: Mettler PB1100	Sonicator Horns Tuned? S20%	Nitrogen Water Bath Temperature:
Prep Start Time: 13:00	Prep End Time: 13:45	Sox/Micro Start Time: —	Sox/Micro End Time: —

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-29-13	JW	WG135352	30.01	1mL	NA	1mL	11-29-13	WB	A4							R256691
↓	↓	↓ -2	29.99	↓	1mL	↓	↓	↓	A5							
↓	↓	↓ -3	30.03	↓	↓	↓	↓	↓	A6							

EX-004 – Revision 2 – 10/01/2012

0000130

Date Extracted	Ext. Init.	Sample ID	Init. Wt (g)	Surr Vol. (mL)	Spike Vol. (mL)	Final Vol Pre-Frac. (mL)	Date Conc. Pre-Frac.	Conc. Init. Pre-Frac.	Tray Location	Frac. Init.	Frac. Surr Vol. (mL)	Final Vol. Post-Frac. (mL)	Date Conc Post-Frac.	Tray Location	Conc. Init Post-Frac.	Comments
11-29-13	JW	SG90441 E	30.13	1mL	NA	1mL	11-29-13	WB	A7							Re
↓	↓	-2 E	33.09	↓	↓	↓	↓	↓	A8							↓
↓	↓	-3 E	30.96	↓	↓	↓	↓	↓	A9							↓
↓	↓	-4 E	30.07	↓	↓	↓	↓	↓	A10							↓
↓	↓	-5 E	32.44	↓	↓	↓	↓	↓	B1							↓
↓	↓	-6 E	30.09	↓	↓	↓	↓	↓	B2							↓
↓	↓	-7 E	24.44	↓	↓	↓	↓	↓	B3							↓
↓	↓	-8 E	33.38	↓	↓	↓	↓	↓	B4							↓
↓	↓	-9 E	32.33	↓	↓	↓	↓	↓	B5							↓

EX-004 – Revision 2 – 10/01/2012

Katahdin Analytical Services 0000397

KATAHDIN ANALYTICAL SERVICES, INC. - GC LABORATORY RUN LOG

Instrument GC010

Amount Injected: 1uL

Methods – Circle Applicable Methods

DRO/TPH – 8015Mod. / MDEP 4.1.25 / 8100Mod.

Date	Init	Result File	Sample #	Accept Y/N	Method	Column	Comments
6-12-13	AC	AGF20102	WG125295-7DL	Y	Dro06A	389	1:5 ssk 100/500
		103	-4DL	Y			1:10 100/1000
		104	-5DL	Y			1:10 100/1000
		105	FO	Y			
		106	TB	Y			
		107	PHC50	Y			WG125442-4
6-13-13		108	M	N			
		109	M	N			
			Installed new column				
			Changed liner/septa				
6-18-13		118	FLP50		Flpdrb.	408	Flopro method
		119					development
6-19-13		120					
		121					
		122					
			Change Liner				
6-21-13	AC	AGF20123	TB	N	DRO07AB	408	
		124	TB	Y			
		125	PHC50	Y			WG125981-3 DRO
		126	200	Y			WG126180-3 TPH
		127	100	Y			-3
		128	20	Y			-4
		129	5	Y			-2
		130	IND	Y			-1
		131	FOH2	Y			-1
		132	WG125846-1	Y			-6
		133	-2	Y			-6
		134	-3	Y			jflag

REVIEWED BY _____ ON _____

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: MADEP EPH

(circle) FL PRO

TNRCC 1005

~~MEDEP 4.1.25~~

~~DRO - 8015 Mod~~

TPH - 8015 Mod

CT ETPH

Standard	Standard ID

Amount Injected: 1 uL Column ID: 408

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
			Change Liner				
11-26-13	AC	AGK20362	TR	N	WG135478	TPH07B	
		363	TR	Y			
		364	PHC50	Y	-1		
		365	FO	Y			
		366	TB	Y			
		367	WG135097-1	Y			hit >PQL
		368	-2	Y			
		369	-3	Y			
		370	WG134891-1	Y			
		371	-2	Y			
		372	-3	Y			
		373	SG89180-11	Y			
		374	SG9044-2 AC	~~Y~~N			
		375	-7	Y			
		376	-8	Y			
		377	TB	Y			
		378	PHC20	Y	-2		C-30↑ Dono range ↑ TPH range in
		379	SG9044-4	N			
		380	-1				DL 1:2
		381	-3DL				1:5
		382	-5DL				1:5 DL 1:10
		383	-6DL				1:5
11-27-13		384	-9DL				1:5 DL 1:20
		385	SG9056-1DL				1:40
		386	-2DL				1:40 DL 1:50

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: ~~MADEP EPH~~ DRO - 8015 Mod

(circle) ~~FL PRO~~ TPH - 8015 Mod

TNRCC 1005 ~~CT ETPH~~

MEDEP 4.1.25

Amount Injected: 1 uL Column ID: 408

Standard	Standard ID

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
11-27-13	AC	AGK20412	SG9178-3	Y	WG135397	FLPH1B	
↓	↓	413	-4	Y	↓	↓	
11-28-13		414	-5	Y			DGT
		415	-6	Y			
		416	TB	Y			
		417	CV20	Y	-2		
		418	SG9178-9	N			
		419	-11				
		420	-12				
		421	-13				
		422	-14				
↓	↓	423	-15	↓	↓	↓	Inst fault
			Change liner				
12-2-13	AC	AGL20001	TB	N	WG135478	TPH07B	
↓	↓	2	TB	Y	↓	↓	
		3	PHC50	N			C30 T
		4	FO	Y			
		5	TB	Y			
		6	PHC50	Y	-3		
		7	WG135352-1	Y			
		8	-2	Y			
		9	-3	Y			
		10	SG9044-1RE	Y			
		11	-2RE	Y			
		12	-4RE	Y			
↓	↓	13	-7RE	Y	↓	↓	

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC10 (FID)

Method: MADEP EPH — DRO - 8015 Mod

(circle) FL PRO — TPH - 8015 Mod

TNRCC 1005 — CT ETPH

MEDEP 4.1.25

Amount Injected: 1 uL Column ID: 408

Standard	Standard ID

Date	Init.	Result File	Sample ID	Y/N	Analytical Workgroup	Method	Comments
12-2-13	AC	AGL2001 4	SG9044-8RE	Y	WG135478	TPH07B	
		15	-3REDL	Y			1:5 100/500
		16	-1REDL	N			1:2
		17	TB	Y			
		18	PHC20	Y	-4		
		19	SG9044-5REDL	Y			1:10 100/1000
		20	-6REDL	Y			1:5 100/500
12-3-13		21	-9REDL	Y			1:20 50/1000
		22	-4	N			
		23	-1DL	Y			1:2 160/200
		24	FO	Y			
		25	TB	Y			
		26	PHC50	Y	-5		

GASOLINE RANGE ORGANICS DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** AQ
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	BFB	#
IDW-GW-112113	SG9180-11	A	99.0	
Method Blank Sample	WG135145-1	A	94.0	
Laboratory Control S	WG135145-2	A	83.0	
Laboratory Control S	WG135145-3	A	92.0	

		QC Limits
BFB	P-BROMOFLUOROBENZENE	79-121

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport CTO WE40-04 **Matrix:** SL
Lab Code: KAS **SDG:** WE40-1

Client Sample ID	Lab Sample ID	Col. ID	BFB	#
RS-SB1-111413	SG9044-1	A	94.6	
RS-SB2-111513	SG9044-2	A	95.4	
RS-SB3-111513	SG9044-3	A	91.3	
RS-SB4-111813	SG9044-4	A	95.4	
RS-SB5-111813	SG9044-5	A	76.9	*
RS-SB6-111513	SG9044-6	A	87.9	
RS-SB7-111413	SG9044-7	A	92.2	
RS-SB8-111413	SG9044-8	A	93.2	
FD-SO-111813	SG9044-9	A	79.0	*
Method Blank Sample	WG134903-1	A	95.0	
Method Blank Sample	WG134903-1RA	A	87.2	
Laboratory Control S	WG134903-2	A	93.8	
Laboratory Control S	WG134903-3	A	94.6	

		QC Limits
BFB	P-BROMOFLUOROBENZENE	81-119

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : 9GK4004A.D
Instrument ID : GC09
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG134903-1
Date Analyzed : 23-NOV-13
Time Analyzed : 13:43

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG134903-2	9GK4005A	11/23/13	14:38
Laboratory Control S	WG134903-3	9GK4006A	11/23/13	15:32

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : 9GK4022A.D
Instrument ID : GC09
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG134903-1RA
Date Analyzed : 25-NOV-13
Time Analyzed : 10:08

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
RS-SB1-111413	SG9044-1	9GK4030.D	11/25/13	18:53
RS-SB2-111513	SG9044-2	9GK4031.D	11/25/13	19:48
RS-SB3-111513	SG9044-3	9GK4033.D	11/25/13	21:37
RS-SB4-111813	SG9044-4	9GK4034.D	11/25/13	22:32
RS-SB5-111813	SG9044-5	9GK4035.D	11/25/13	23:26
RS-SB6-111513	SG9044-6	9GK4036.D	11/26/13	00:21
RS-SB7-111413	SG9044-7	9GK4037.D	11/26/13	01:16
RS-SB8-111413	SG9044-8	9GK4038.D	11/26/13	02:10
FD-SO-111813	SG9044-9	9GK4039.D	11/26/13	03:05

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-04
Lab File ID : 9GK4044A.D
Instrument ID : GC09
Heated Purge : No

SDG : WE40-1
Lab Sample ID : WG135145-1
Date Analyzed : 26-NOV-13
Time Analyzed : 11:24

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG135145-2	9GK4045A	11/26/13	14:25
Laboratory Control S	WG135145-3	9GK4046A	11/26/13	15:19
IDW-GW-112113	SG9180-11	9GK4048.D	11/26/13	17:06

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services
SDG : WE40-1
Project : NAVSTA Newport CTO WE40-04
Column ID : A
Instrument ID : GC09

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	BFB	BFB
Initial Calibration	WG127983-2	07/26/13	10:52	31.92	
Initial Calibration	WG127983-3	07/26/13	11:46	31.84	
Initial Calibration	WG127983-4	07/26/13	12:39	31.82	
Initial Calibration	WG127983-5	07/26/13	13:32	31.84	
Initial Calibration	WG127983-6	07/26/13	14:25	31.85	
Initial Calibration	WG127983-1	07/26/13	17:56	31.89	
INDEPENDENT SOURCE	WG127983-7	07/26/13	18:50	31.91	
Continuing Calibrati	WG134903-4	11/23/13	10:15	31.68	
Method Blank Sample	WG134903-1	11/23/13	13:43	31.68	
Laboratory Control S	WG134903-2	11/23/13	14:38	31.67	
Laboratory Control S	WG134903-3	11/23/13	15:32	31.67	
Continuing Calibrati	WG134903-5	11/23/13	23:45	31.68	
Continuing Calibrati	WG134903-6	11/25/13	08:06	31.61	
Method Blank Sample	WG134903-1RA	11/25/13	10:08	31.61	
RS-SB1-111413	SG9044-1	11/25/13	18:53	31.62	
RS-SB2-111513	SG9044-2	11/25/13	19:48	31.63	
Continuing Calibrati	WG134903-7	11/25/13	20:43	31.63	
RS-SB3-111513	SG9044-3	11/25/13	21:37	31.63	
RS-SB4-111813	SG9044-4	11/25/13	22:32	31.63	
RS-SB5-111813	SG9044-5	11/25/13	23:26	31.63	
RS-SB6-111513	SG9044-6	11/26/13	00:21	31.63	
RS-SB7-111413	SG9044-7	11/26/13	01:16	31.63	
RS-SB8-111413	SG9044-8	11/26/13	02:10	31.63	
FD-SO-111813	SG9044-9	11/26/13	03:05	31.63	
Continuing Calibrati	WG134903-8	11/26/13	04:00	31.63	
Continuing Calibrati	WG135145-4	11/26/13	08:35	31.62	
Method Blank Sample	WG135145-1	11/26/13	11:24	31.63	
Laboratory Control S	WG135145-2	11/26/13	14:25	31.63	
Laboratory Control S	WG135145-3	11/26/13	15:19	31.63	
IDW-GW-112113	SG9180-11	11/26/13	17:06	31.63	
Continuing Calibrati	WG135145-5	11/26/13	21:38	31.66	

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-1
Client ID: RS-SB1-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4030.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 86.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	2.3	mg/Kgdrywt	1	2.5	2.8	2.1	2.3
p-Bromofluorobenzene		94.6	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4030.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4030.d
Lab Smp Id: SG9044-1 Client Smp ID: RS-SB1-111413
Inj Date : 25-NOV-2013 18:53
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-1
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

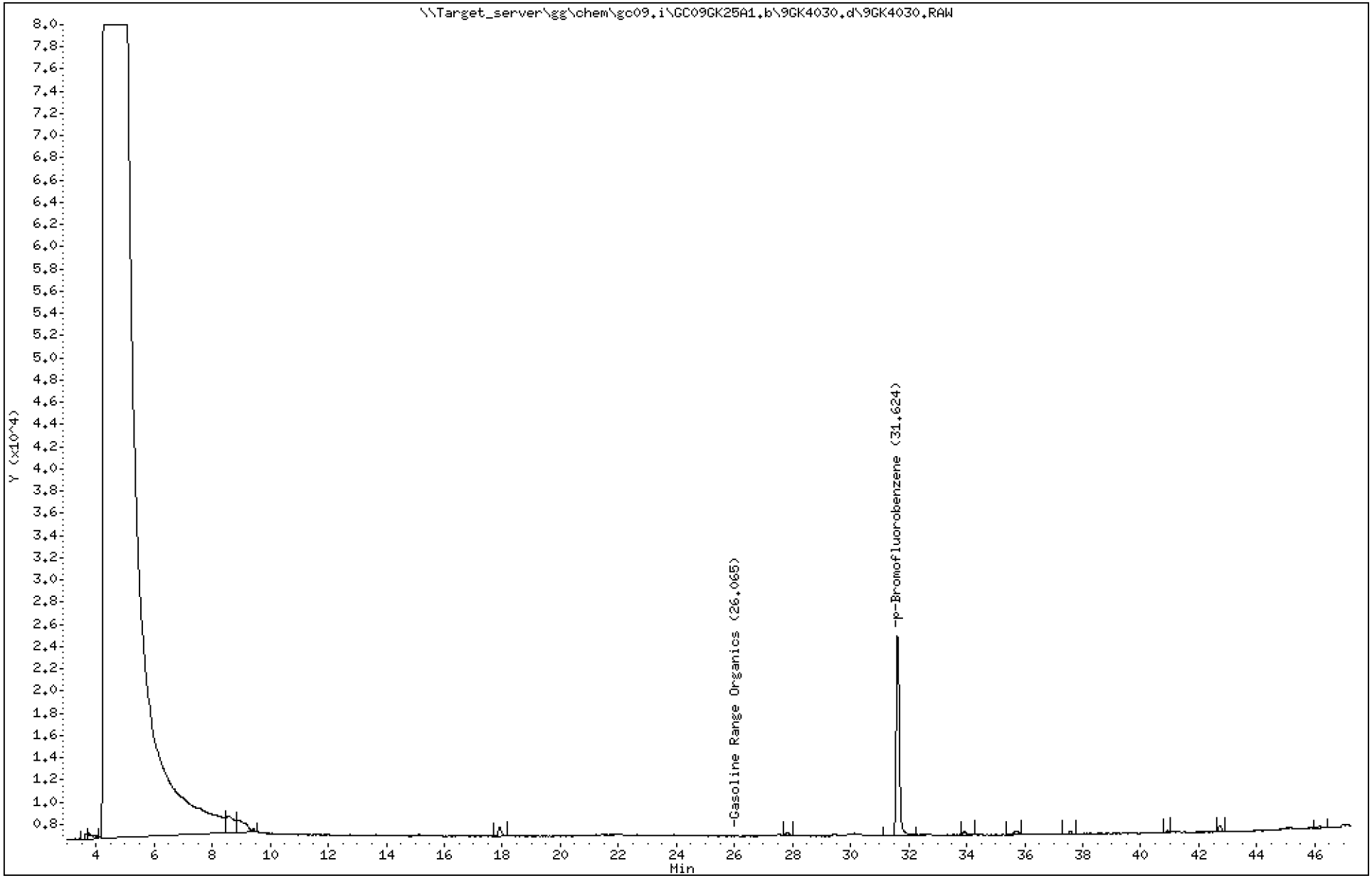
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	14.304	Moisture (%)
Ws	0.01210	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.624	31.633	-0.009	131813	18.9335	5.35	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4030.d
Date : 25-NOV-2013 18:53
Client ID: RS-SB1-111413
Sample Info: SG9044-1

Instrument: gc09.i

Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000415

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-2
Client ID: RS-SB2-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4031.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 84.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	2.4	mg/Kgdrywt	1	2.5	3.0	2.2	2.4
p-Bromofluorobenzene		95.4	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4031.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

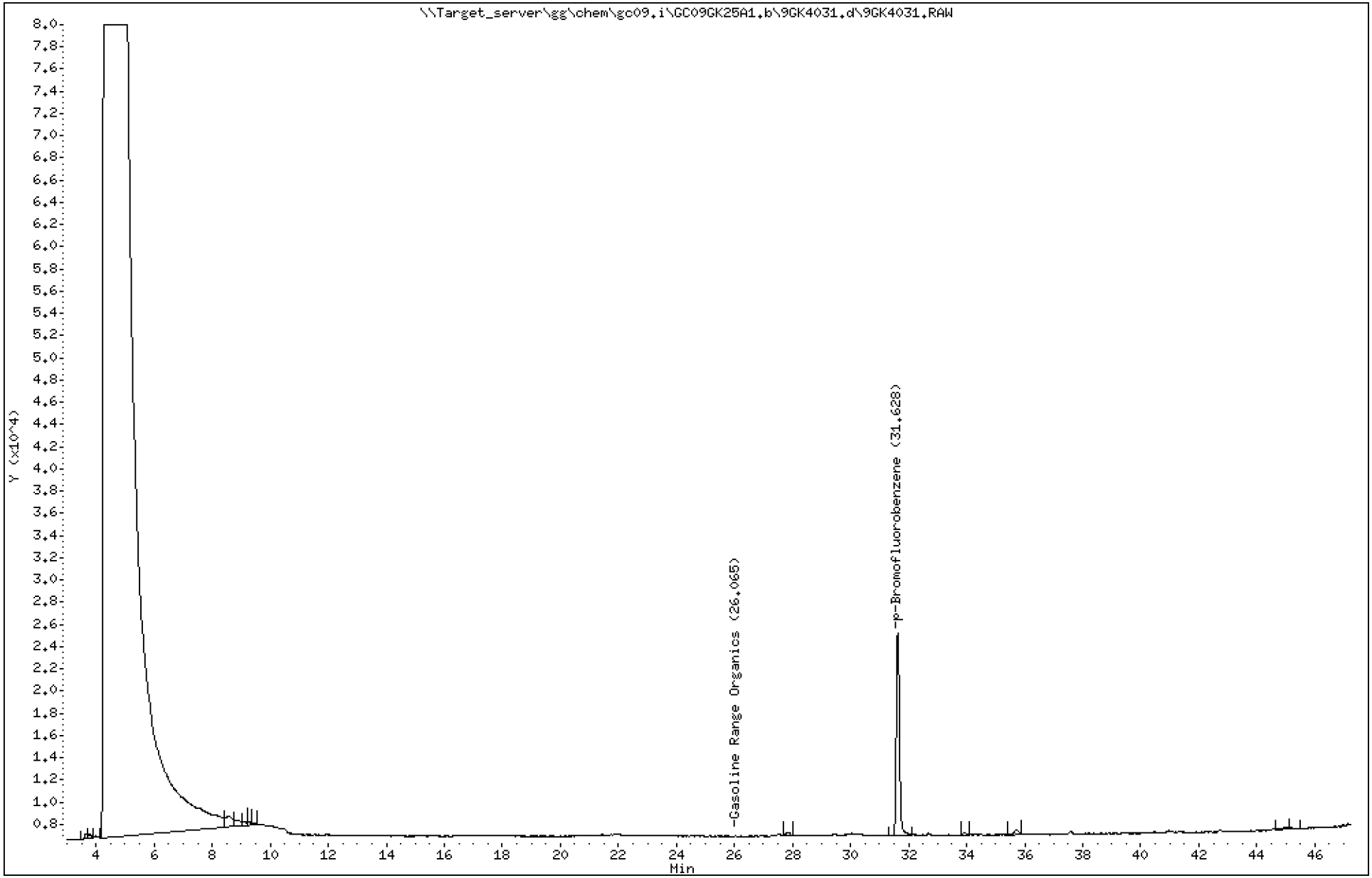
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4031.d
Lab Smp Id: SG9044-2 Client Smp ID: RS-SB2-111513
Inj Date : 25-NOV-2013 19:48
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-2
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	16.198	Moisture (%)
Ws	0.01214	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.627	31.633	-0.006	132794	19.0744	5.61	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4031.d
Date : 25-NOV-2013 19:48
Client ID: RS-SB2-111513
Instrument: gc09.i
Sample Info: SG9044-2
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000418

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-3
Client ID: RS-SB3-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4033.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 90.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	B	8.4	mg/Kgdrywt	1	2.5	2.4	1.8	2.0
p-Bromofluorobenzene		91.3	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4033.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

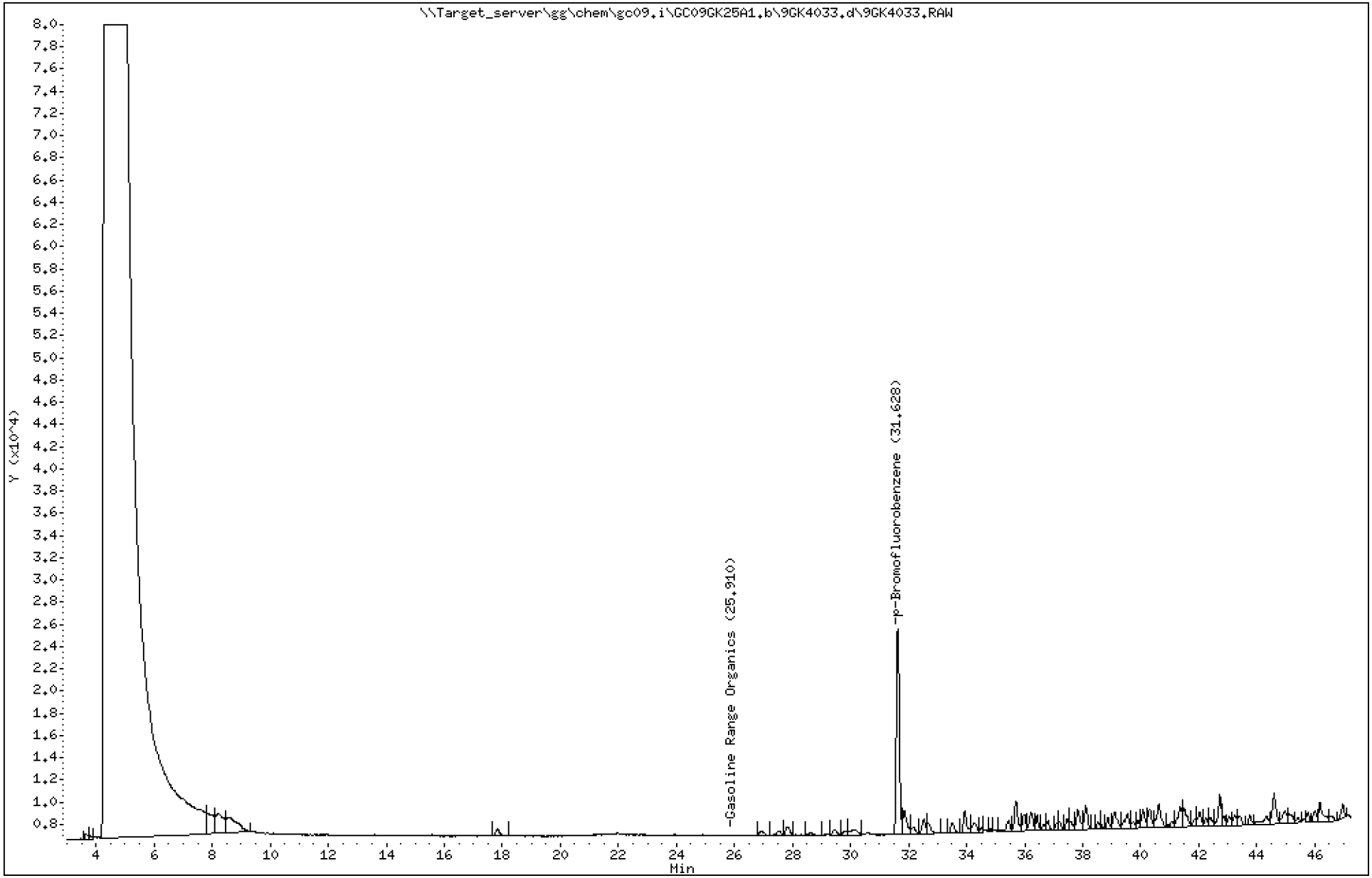
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4033.d
Lab Smp Id: SG9044-3 Client Smp ID: RS-SB3-111513
Inj Date : 25-NOV-2013 21:37
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-3
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	10.030	Moisture (%)
Ws	0.01281	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S	6 Gasoline Range Organics	8.985-42.834			436422	34.1296	8.35	
$	10 p-Bromofluorobenzene	31.627	31.633	-0.006	127222	18.2740	4.47	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4033.d
Date : 25-NOV-2013 21:37
Client ID: RS-SB3-111513
Instrument: gc09.i
Sample Info: SG9044-3
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000421

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-4
Client ID: RS-SB4-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4034.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 86.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	2.0	mg/Kgdrywt	1	2.5	2.6	1.9	2.0
p-Bromofluorobenzene		95.4	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4034.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

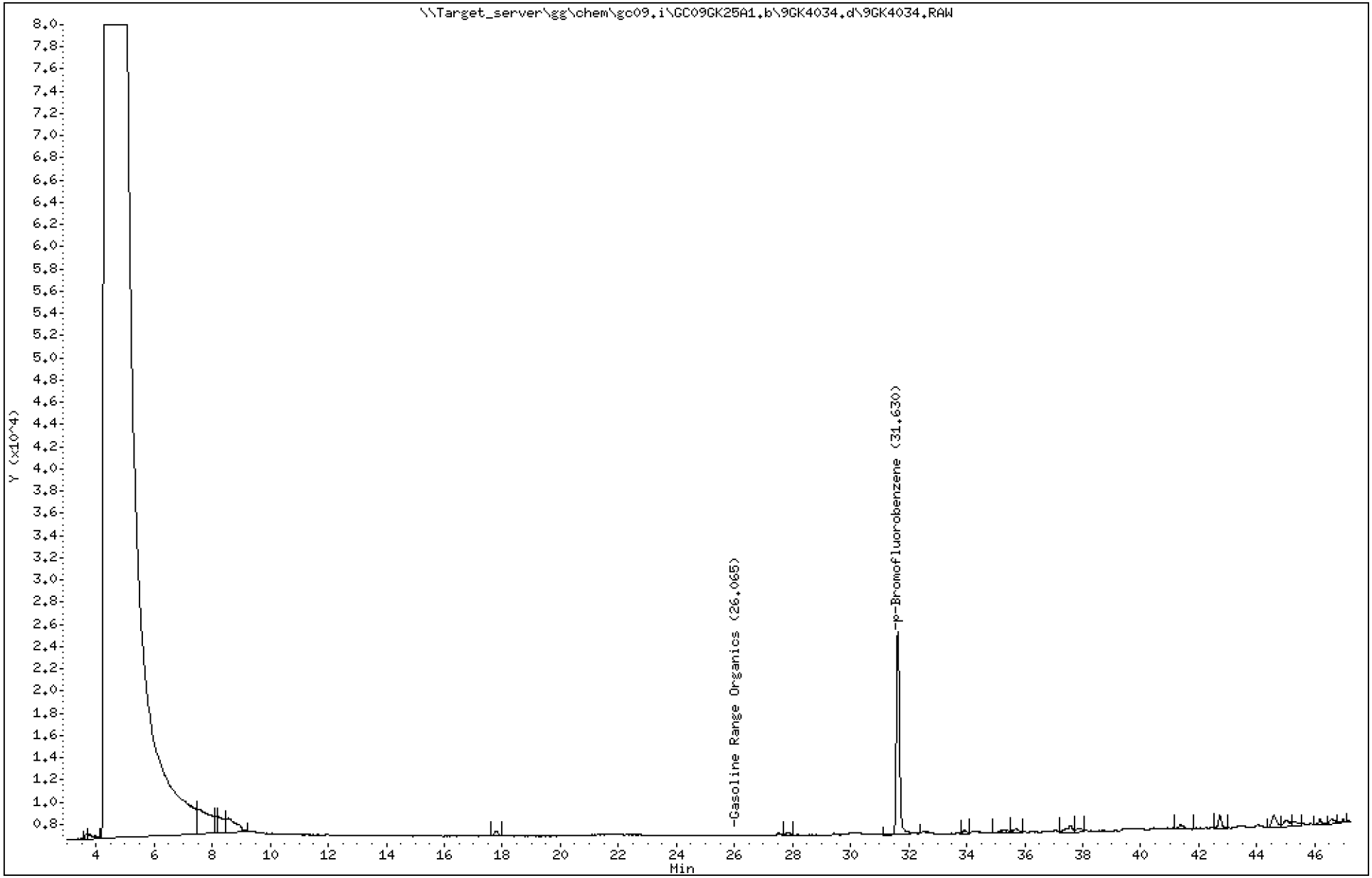
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4034.d
Lab Smp Id: SG9044-4 Client Smp ID: RS-SB4-111813
Inj Date : 25-NOV-2013 22:32
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-4
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	14.167	Moisture (%)
Ws	0.01361	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.629	31.633	-0.004	132880	19.0867	4.87	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4034.d
Date : 25-NOV-2013 22:32
Client ID: RS-SB4-111813
Instrument: gc09.i
Sample Info: SG9044-4
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000424

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-5
Client ID: RS-SB5-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4035.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 86.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	B	170	mg/Kgdrywt	1	2.5	2.6	1.9	2.1
p-Bromofluorobenzene	*	76.9	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4035.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4035.d
Lab Smp Id: SG9044-5 Client Smp ID: RS-SB5-111813
Inj Date : 25-NOV-2013 23:26
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-5
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

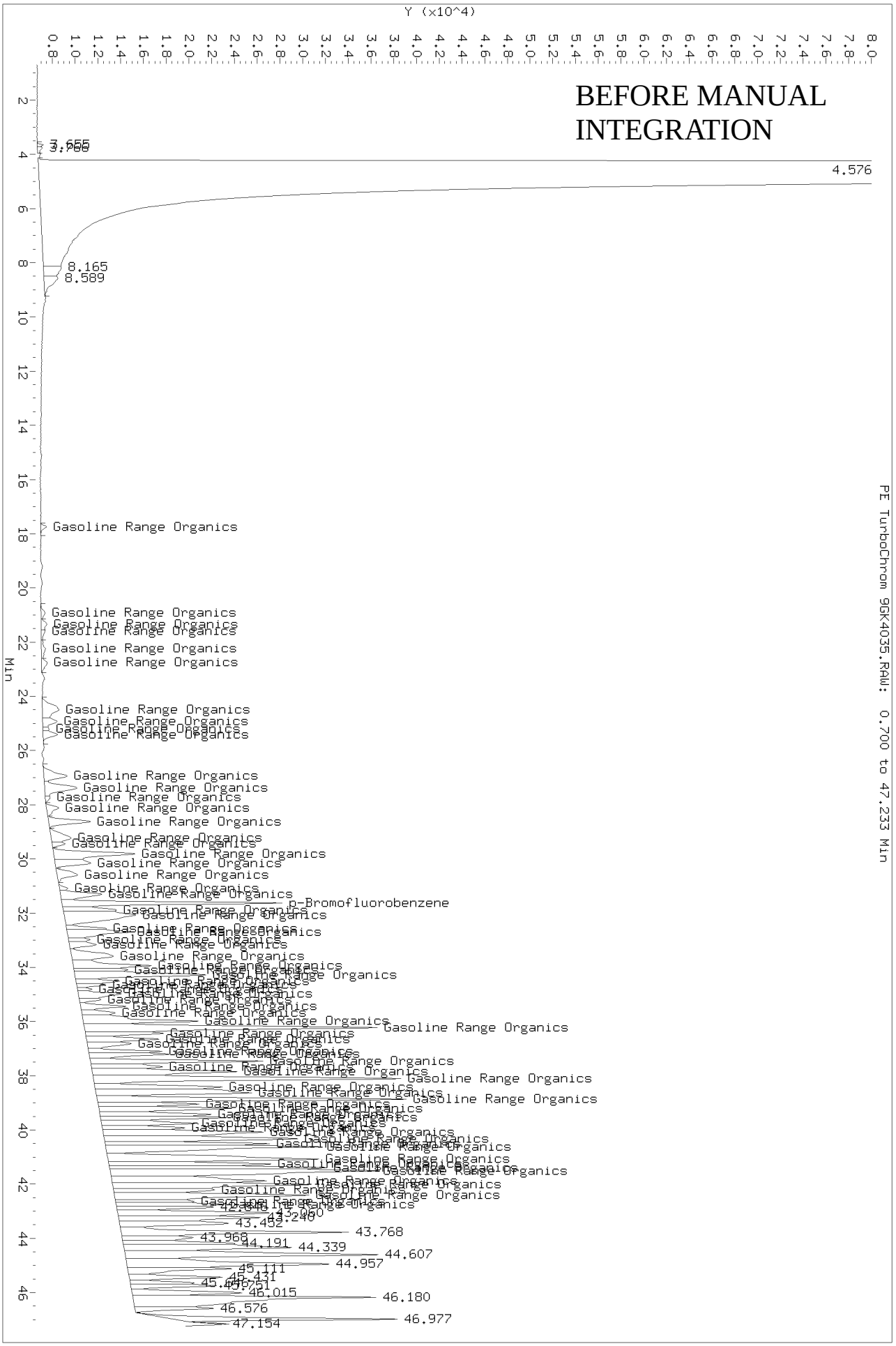
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	13.940	Moisture (%)
Ws	0.01316	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	8.985	-42.834		8343661	652.500	170(M)	
$ 10 p-Bromofluorobenzene	31.633	31.633	0.000	107288	15.4107	4.02(RM)	M2

QC Flag Legend

JLP
9:16 am, Nov 29, 2013

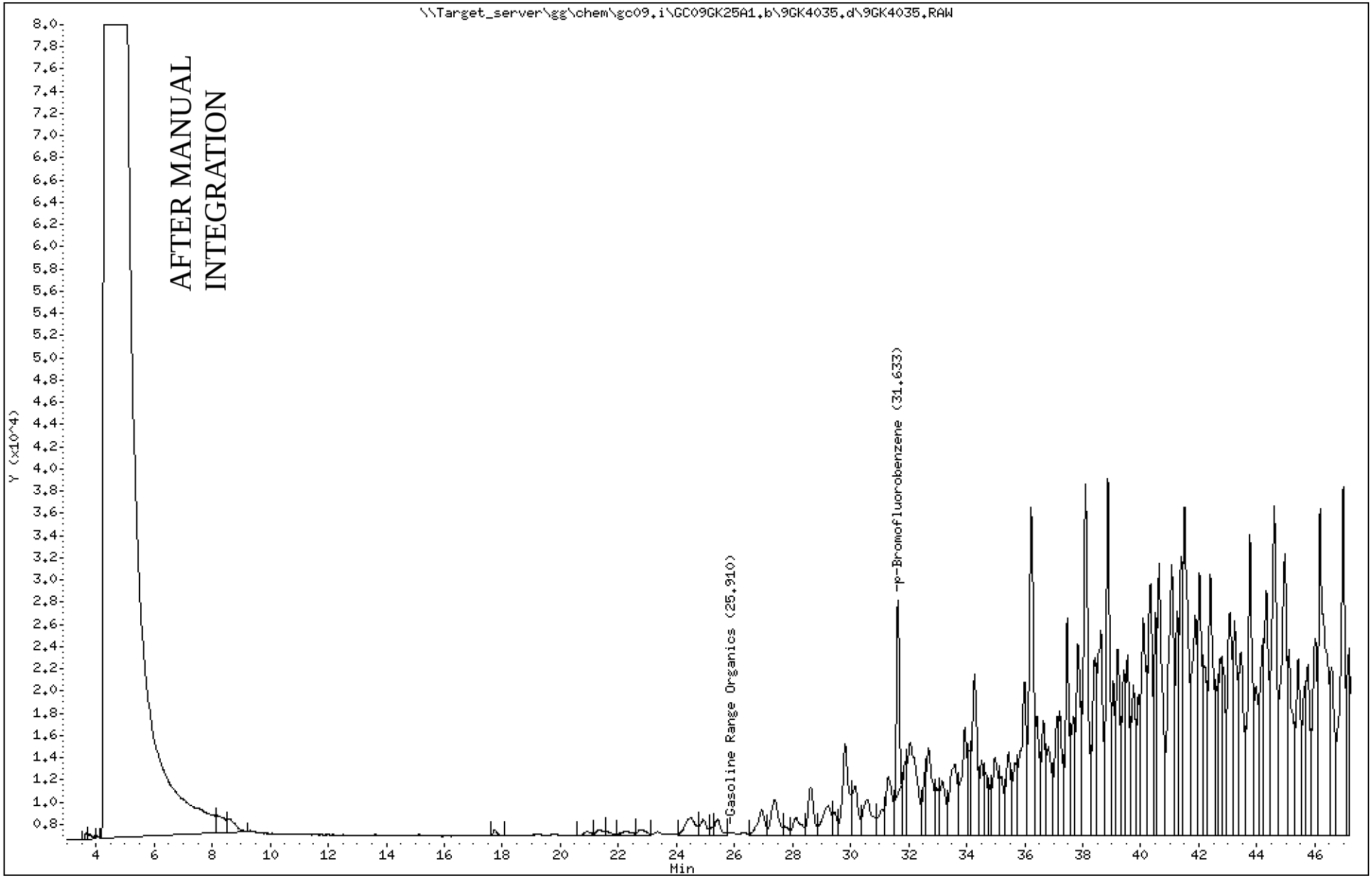
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Y (x10^4)
BEFORE MANUAL INTEGRATION
3.655
3.760
4.576
8.165
8.589
Gasoline Range Organics
p-Bromofluorobenzene
43.240
43.452
43.768
43.968
44.191
44.339
44.607
44.957
45.111
45.431
45.596751
46.015
46.180
46.576
46.977
47.154
Min
Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4035.d\9GK4035.RAW
Injection Date: 25-NOV-2013 23:26
Instrument: gc09.i
Client Sample ID: RS-SB5-111813
PE TurboChrom 9GK4035.RAW: 0.700 to 47.233 Min

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4035.d
Date : 25-NOV-2013 23:26
Client ID: RS-SB5-111813
Sample Info: SG9044-5

Instrument: gc09.i

Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000428

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-6
Client ID: RS-SB6-111513
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4036.D

Sample Date: 15-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 90.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	B	38.	mg/Kgdrywt	1	2.5	2.6	2.0	2.1
p-Bromofluorobenzene		87.9	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4036.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4036.d
Lab Smp Id: SG9044-6 Client Smp ID: RS-SB6-111513
Inj Date : 26-NOV-2013 00:21
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-6
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

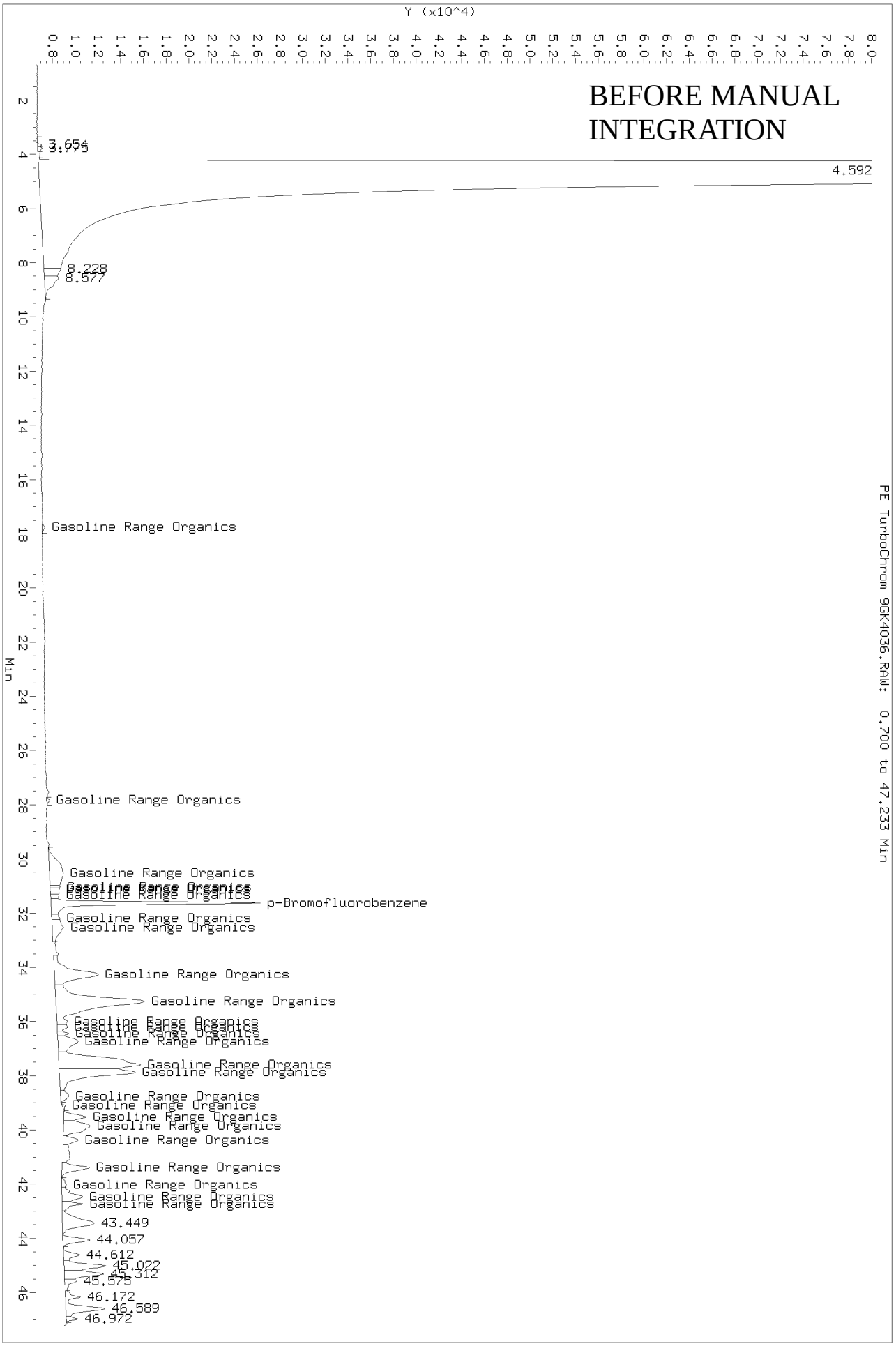
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	10.435	Moisture (%)
Ws	0.01186	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	8.985-42.834			1817578	142.140	37.6(M)	
$ 10 p-Bromofluorobenzene	31.633	31.633	0.000	122505	17.5965	4.65(M)	M2

JLP
9:17 am, Nov 29, 2013

QC Flag Legend

M - Compound response manually integrated.


Y (x10^4)
BEFORE MANUAL INTEGRATION
3.654
3.975
4.592
8.228
8.577
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
p-Bromofluorobenzene
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
Gasoline Range Organics
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Gasoline Range Organics
Gasoline Range Organics
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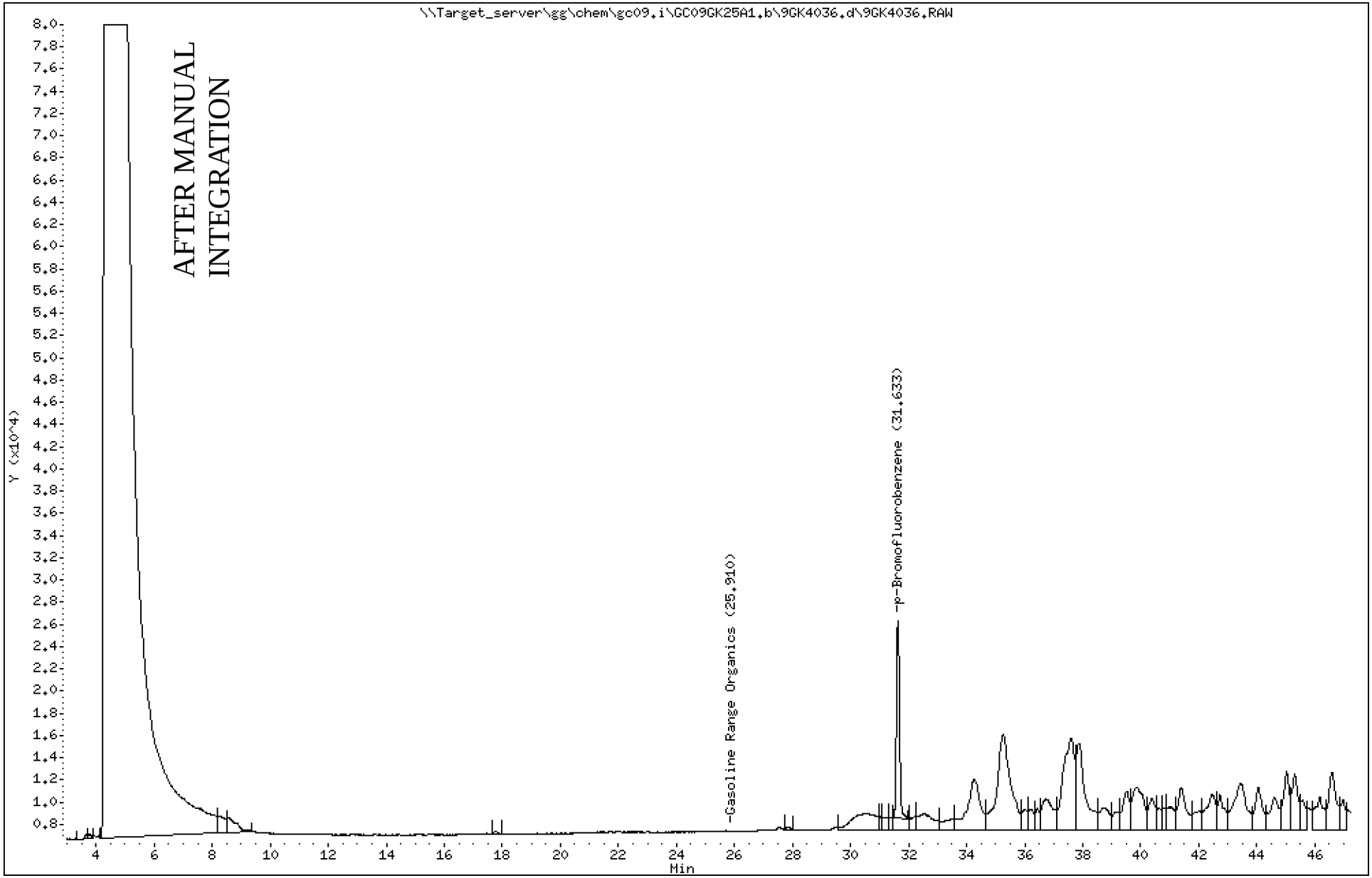
Gasoline Range Organics
43.449
44.057
44.612
45.022
45.312
45.575
46.172
46.589
46.972
Min
Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4036.d\9GK4036.RAW
Injection Date: 26-NOV-2013 00:21
Instrument: gc09.i
Client Sample ID: RS-SB6-111513
PE TurboChrom 9GK4036.RAW: 0.700 to 47.233 Min

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4036.d
Date : 26-NOV-2013 00:21
Client ID: RS-SB6-111513
Sample Info: SG9044-6

Instrument: gc09.i

Operator: JLP
Column diameter: 0.53

Column phase: RTX-624



Katahdin Analytical Services 0000432

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-7
Client ID: RS-SB7-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4037.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 87.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	B	3.4	mg/Kgdrywt	1	2.5	2.7	2.0	2.2
p-Bromofluorobenzene		92.2	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4037.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

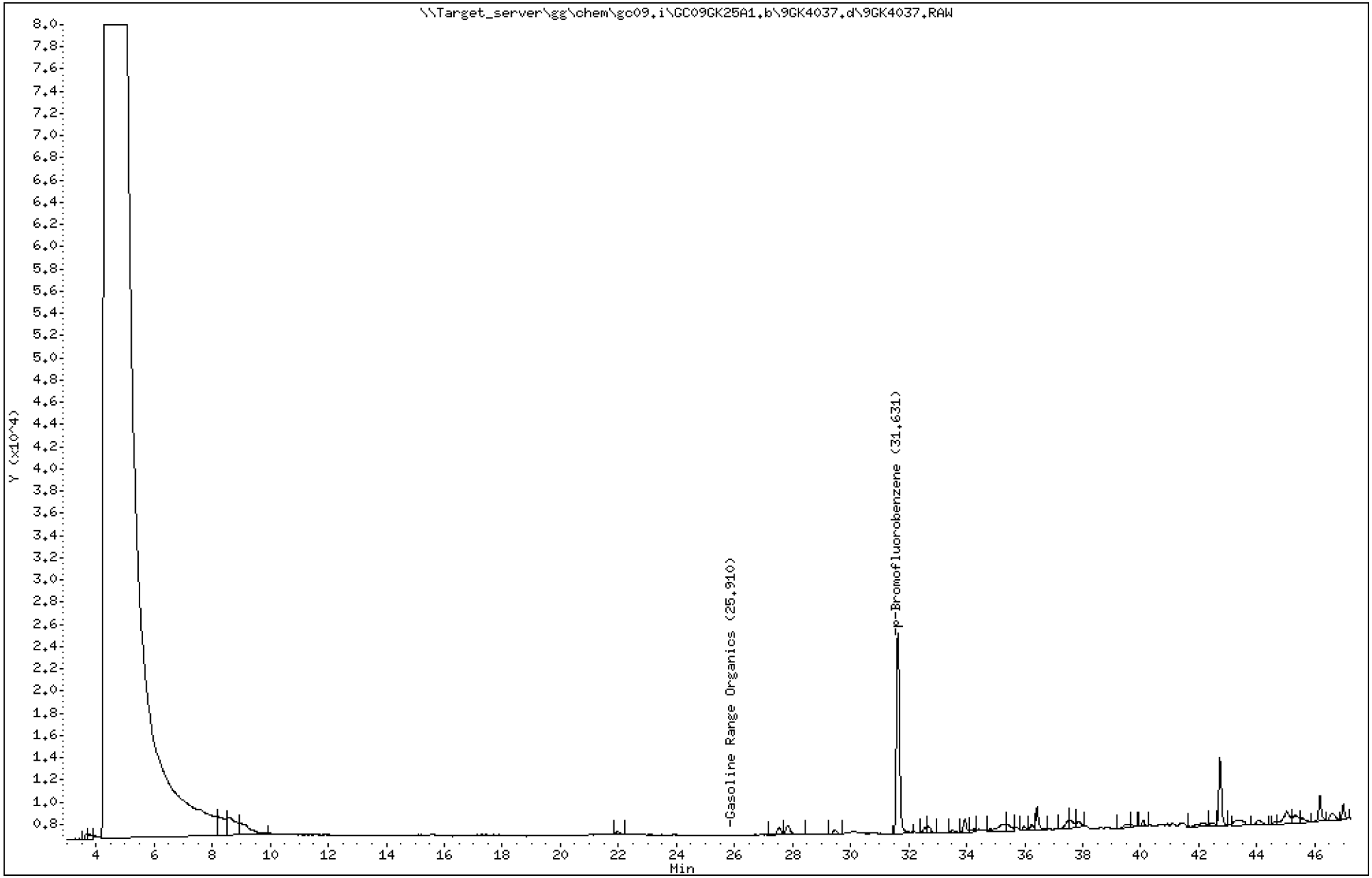
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4037.d
Lab Smp Id: SG9044-7 Client Smp ID: RS-SB7-111413
Inj Date : 26-NOV-2013 01:16
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-7
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	12.708	Moisture (%)
Ws	0.01225	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	8.985	-42.834		163180	12.7612	3.45	
$ 10 p-Bromofluorobenzene	31.631	31.633	-0.002	128474	18.4538	4.98	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4037.d
Date : 26-NOV-2013 01:16
Client ID: RS-SB7-111413
Instrument: gc09.i
Sample Info: SG9044-7
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000435

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-8
Client ID: RS-SB8-111413
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4038.D

Sample Date: 14-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 78.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	2.6	mg/Kgdrywt	1	2.5	3.2	2.4	2.6
p-Bromofluorobenzene		93.2	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4038.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4038.d
Lab Smp Id: SG9044-8 Client Smp ID: RS-SB8-111413
Inj Date : 26-NOV-2013 02:10
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-8
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

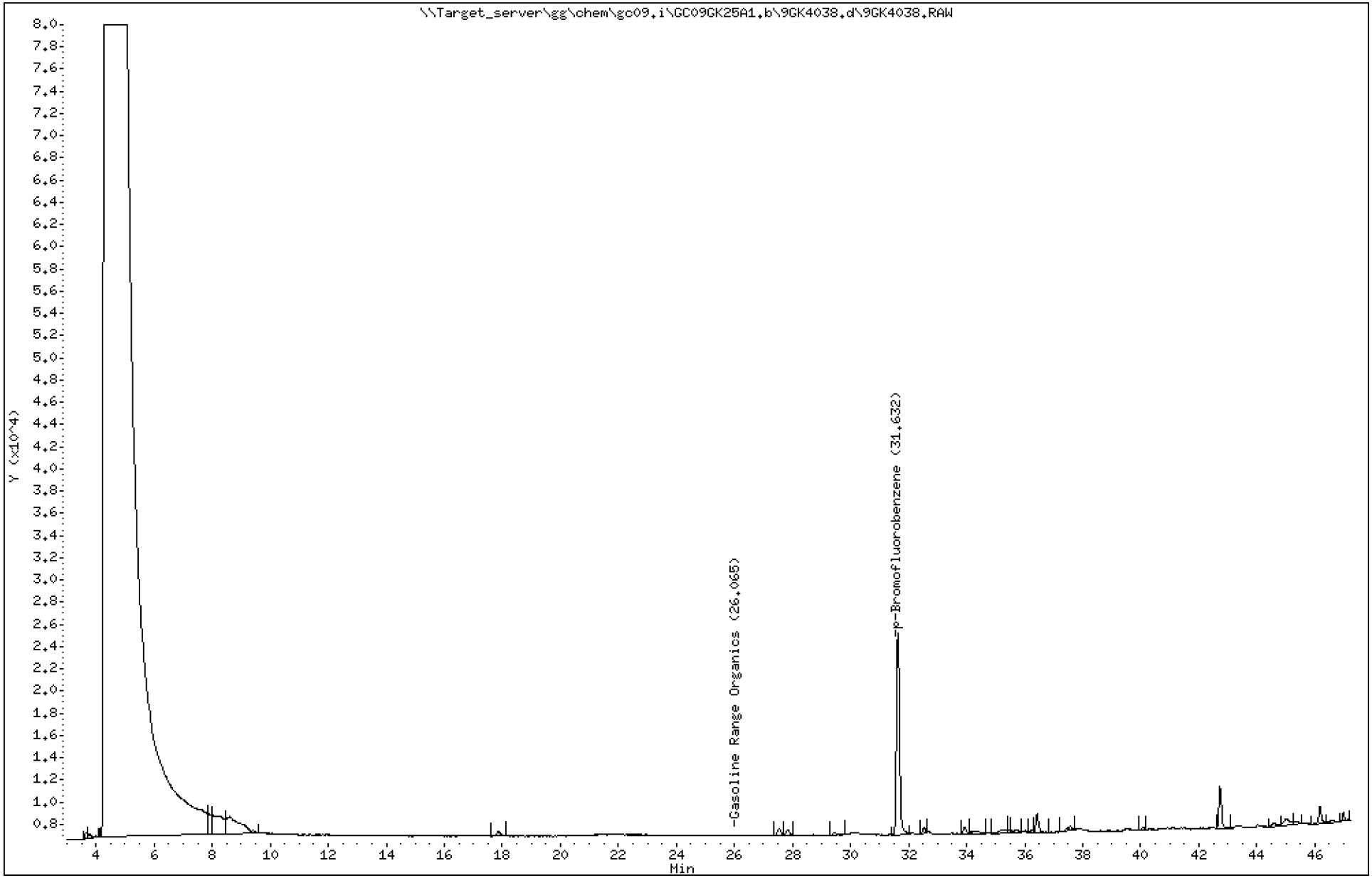
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	22.065	Moisture (%)
Ws	0.01272	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.632	31.633	-0.001	129834	18.6492	6.02	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4038.d
Date : 26-NOV-2013 02:10
Client ID: RS-SB8-111413
Sample Info: SG9044-8

Instrument: gc09.i

Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000438

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9044-9
Client ID: FD-SO-111813
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4039.D

Sample Date: 18-NOV-13
Received Date: 18-NOV-13
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: 86.
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	B	140	mg/Kgdrywt	1	2.5	2.6	1.9	2.1
p-Bromofluorobenzene	*	79.0	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4039.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4039.d
Lab Smp Id: SG9044-9 Client Smp ID: FD-SO-111813
Inj Date : 26-NOV-2013 03:05
Operator : JLP Inst ID: gc09.i
Smp Info : SG9044-9
Misc Info : WG134903,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

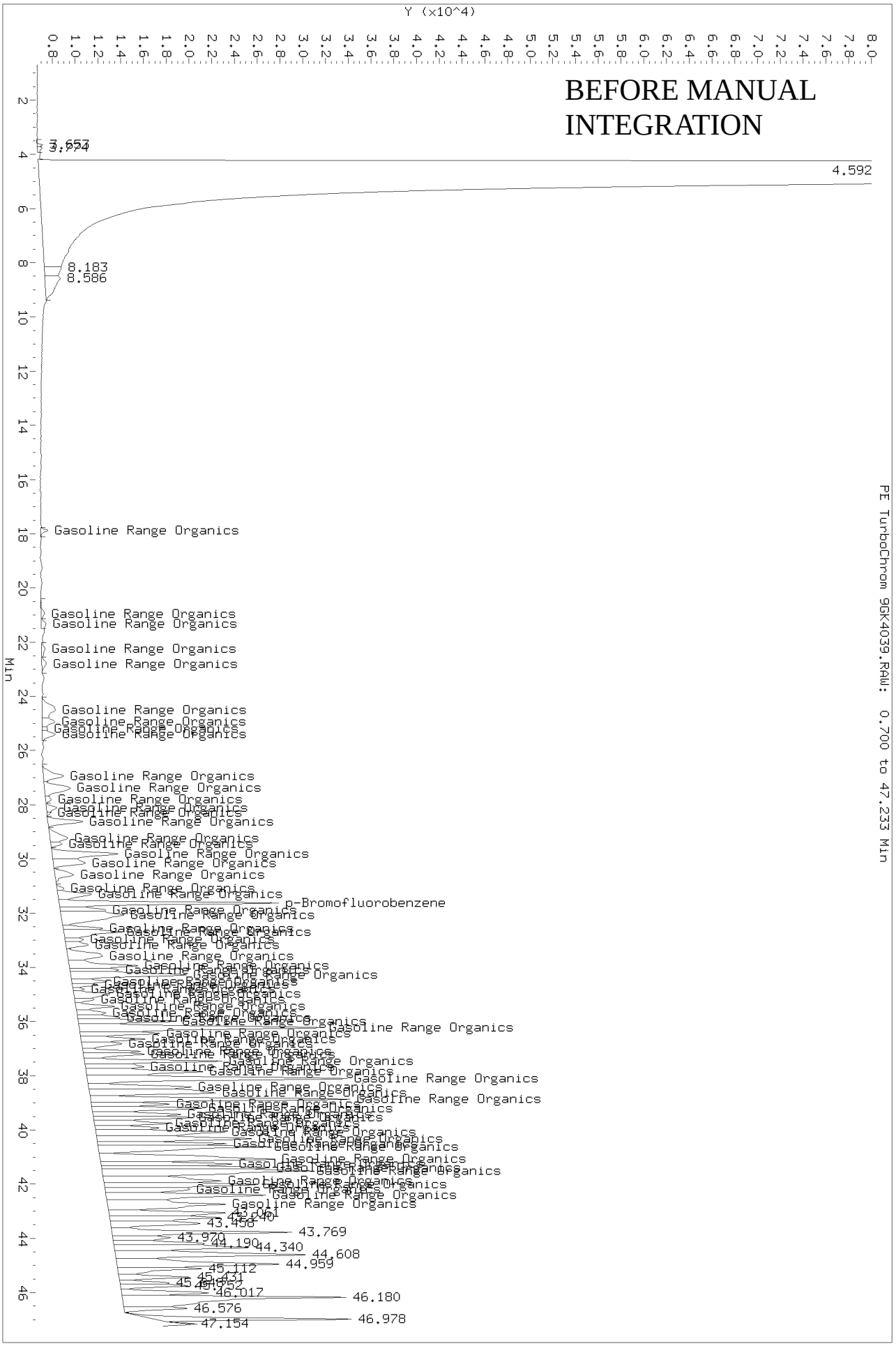
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	13.996	Moisture (%)
Ws	0.01324	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	8.985	-42.834		7070895	552.966	144(M)	
$ 10 p-Bromofluorobenzene	31.633	31.633	0.000	109881	15.7832	4.11(RM)	M2

JLP
9:17 am, Nov 29, 2013

QC Flag Legend

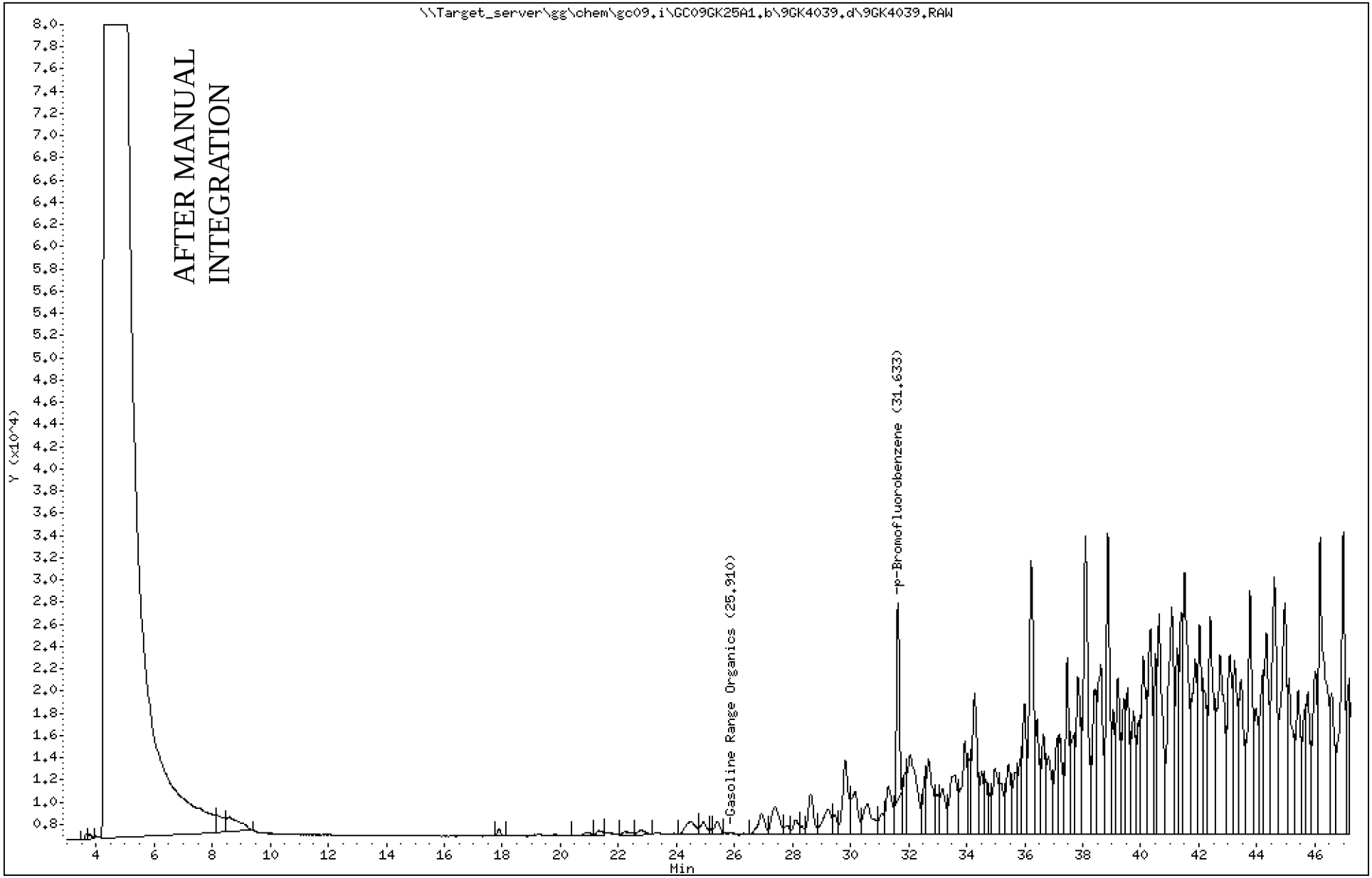
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4039.d\9GK4039.RAW
Injection Date: 26-NOV-2013 03:05
Instrument: gc09.i
Client Sample ID: FD-SD-111813
PE TurboChrom 9GK4039.RAW: 0.700 to 47.233 Min
Y (x10^4)
Min
BEFORE MANUAL INTEGRATION
3.654
3.754
4.592
8.183
8.586
Gasoline Range Organics
p-Bromofluorobenzene
43.458
43.769
43.970
44.190
44.340
44.608
44.959
45.112
45.431
46.017
46.180
46.576
46.978
47.154

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4039.d
Date : 26-NOV-2013 03:05
Client ID: FD-SO-111813
Sample Info: SG9044-9

Instrument: gc09.i

Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000442

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: AECOM Environment
Lab ID: SG9180-11
Client ID: IDW-GW-112113
Project: NAVSTA Newport CTO WE4
SDG: WE40-1
Lab File ID: 9GK4048.D

Sample Date: 21-NOV-13
Received Date: 21-NOV-13
Extract Date: 26-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG135145

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: AQ
% Solids: NA
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics		120	ug/l	1	10	10.	6.7	8.0
p-Bromofluorobenzene		99.0	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4048.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4048.d
Lab Smp Id: SG9180-11 Client Smp ID: IDW-GW-112113
Inj Date : 26-NOV-2013 17:06
Operator : JLP Inst ID: gc09.i
Smp Info : SG9180-11
Misc Info : WG135145,WG127983-2
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

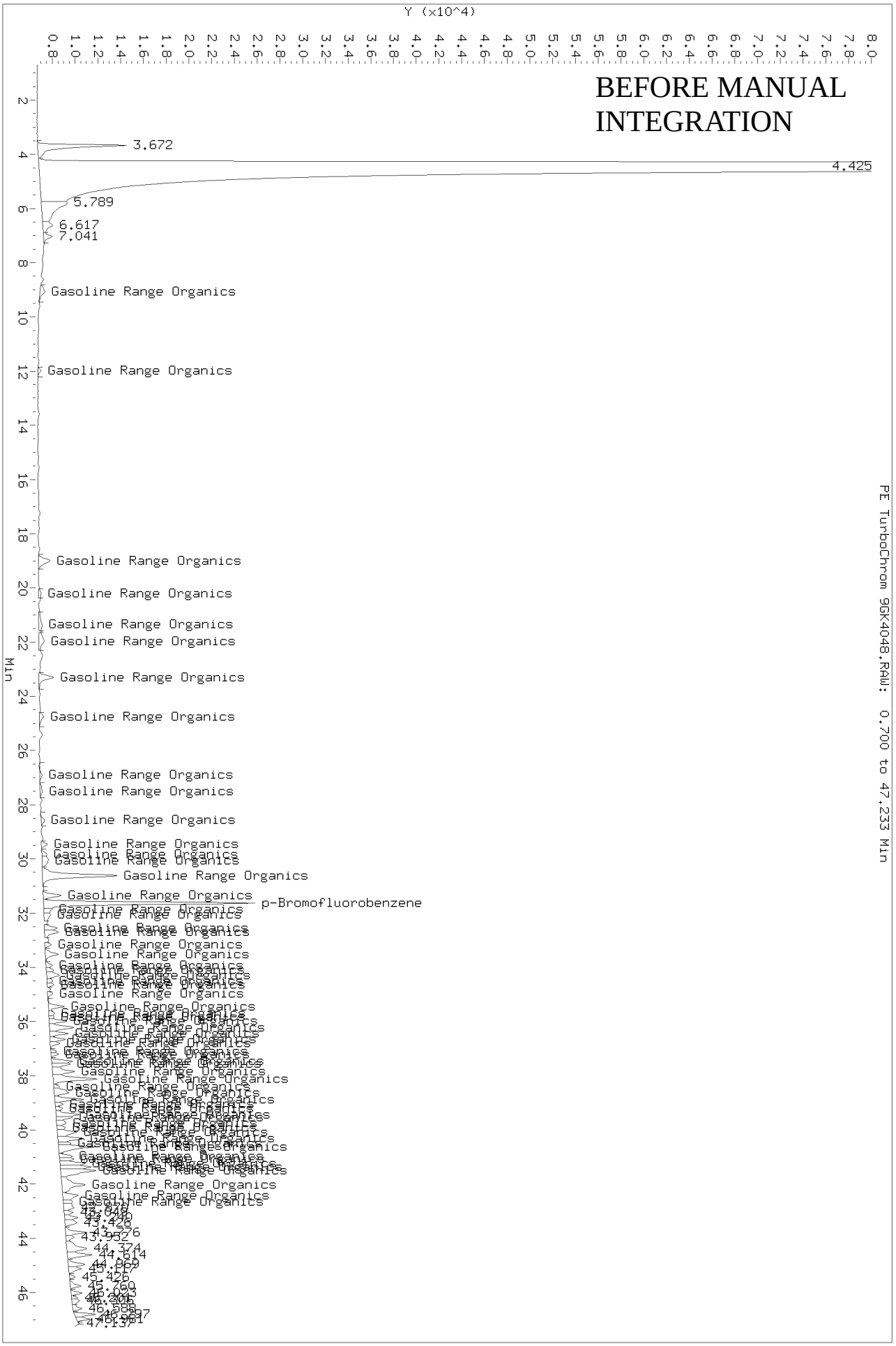
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
S 6 Gasoline Range Organics	8.985-42.834			1532555	119.851	120(M)	M11
$ 10 p-Bromofluorobenzene	31.634	31.633	0.001	137925	19.8114	19.8	

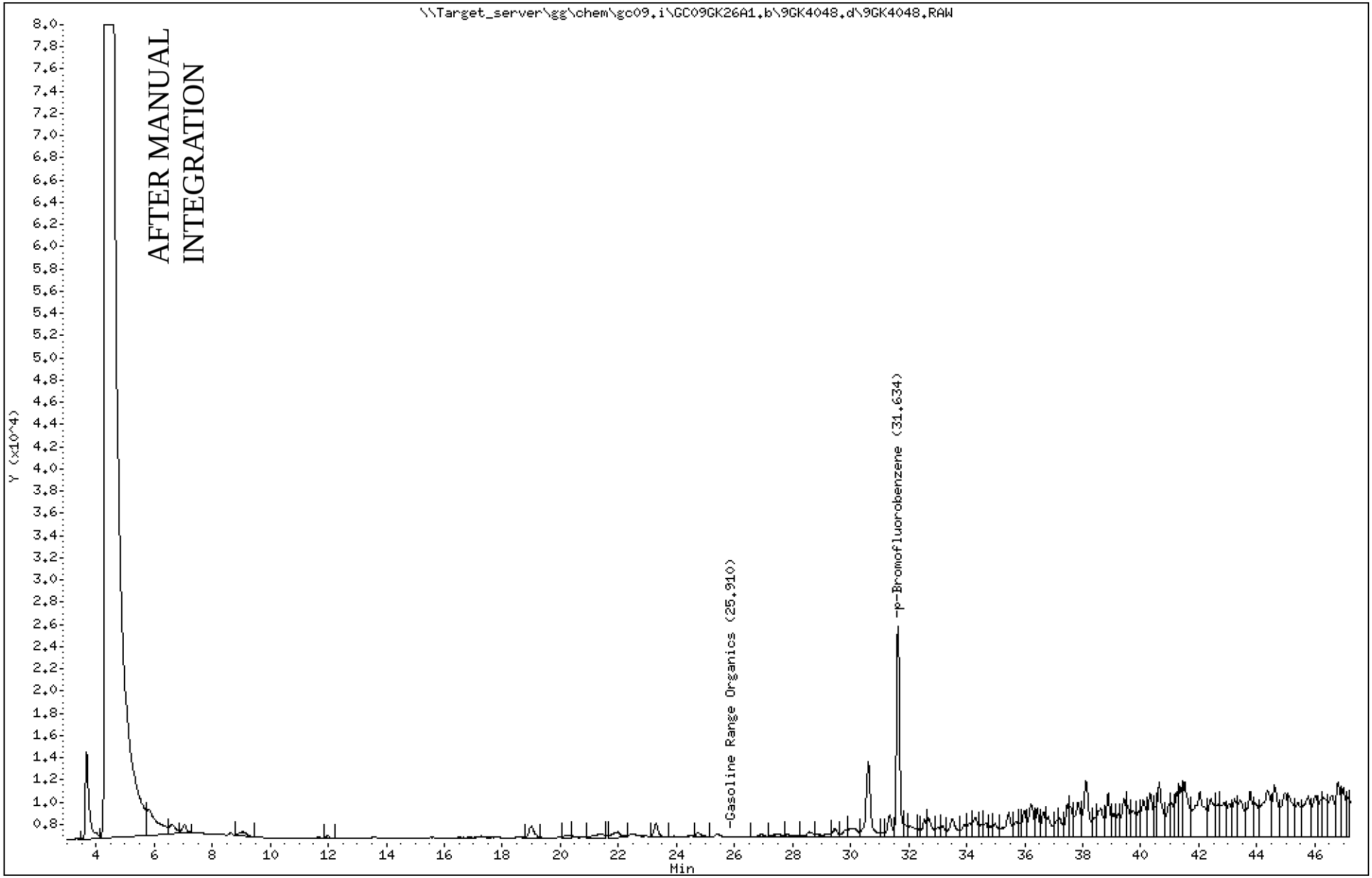
JLP
9:17 am, Nov 29, 2013

QC Flag Legend

M - Compound response manually integrated.


Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4048.d\9GK4048.RAW
Injection Date: 26-NOV-2013 17:06
Instrument: gc09.i
Client Sample ID: IDW-GW-112113
PE TurboChrom 9GK4048.RAW: 0.700 to 47.233 Min
Y (x10^4)
Min
BEFORE MANUAL INTEGRATION
3.672
4.425
5.789
6.617
7.041
Gasoline Range Organics
p-Bromofluorobenzene

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4048.d
Date : 26-NOV-2013 17:06
Client ID: IDW-GW-112113
Instrument: gc09.i
Sample Info: SG9180-11
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000446

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE40-1
Project : NAVSTA Newport CTO WE40-04
Instrument ID: GC09
Lab File IDs : 9GG2130.d 9GG2123.d 9GG2124.d 9GG2125.d 9GG2126.d 9GG2127.d
Column ID: A
Calibration Date(s): 26-JUL-13 09:58 26-JUL-13 17:56

	10.0000 Level 1	100.0000 Level 2	250.0000 Level 3	500.0000 Level 4	1000.0000 Level 5	2000.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Gasoline Range Organic	12176	12675	12913	12768	12910	13282	AVG		12787		2.84495	20.00000	M C
Methyl tert-butyl ether	6010	8181	8380	7569	7477	8149	AVG		7628		11.40841	20.00000	O
Benzene	15826	15860	16448	16739	17015	17326	AVG		16536		3.69285	20.00000	O
Toluene	15470	16041	16286	16166	16555	16718	AVG		16206		2.70556	20.00000	O
Ethylbenzene	14185	14823	15058	15019	15114	15298	AVG		14916		2.61143	20.00000	O
m+p-Xylenes	14785	15435	15552	15559	15638	15874	AVG		15474		2.37846	20.00000	O
o-Xylene	16358	14889	14896	15443	15410	15788	AVG		15464		3.61301	20.00000	O
1,2,4-trimethylbenzene	11095	12102	12347	12071	12262	12757	AVG		12106		4.56871	20.00000	O
1,3,5-trimethylbenzene	9784	10620	10743	10552	10765	11352	AVG		10636		4.74665	20.00000	O
Naphthalene	3461	3359	3870	3000	3223	3680	AVG		3432		9.12376	20.00000	O
p-Bromofluorobenzene	6432	6935	7300	7023	6937	7145	AVG		6962		4.23260	20.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\Target_server\gg\chem\gc09.i\GC09GG26A1.b\9GG2131.d
Report Date: 02-Dec-2013 08:09

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: SDGa02312
Sample Matrix: LIQUID Fraction: GRO
Lab Smp Id: WG127983-7
Level: LOW Operator: EKC
Data Type: GC DATA SampleType: IND CHECK
SpikeList File: ind.spk Quant Type: ESTD
Sublist File: cv.sub
Method File: \\Target_server\gg\chem\gc09.i\GC09GG26A1.b\GROB017A.m
Misc Info: WG127983,WG127983-2,SG5385-1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 Methyl tert-butyl	10.0	10.2	102.00	80-120
3 Benzene	10.0	9.33	93.30	80-120
5 Toluene	10.0	9.25	92.50	80-120
7 Ethylbenzene	10.0	9.42	94.20	80-120
8 m+p-Xylenes	20.0	18.7	93.50	80-120
9 o-Xylene	10.0	9.28	92.80	80-120
11 1,2,4-trimethylben	10.0	9.44	94.40	80-120
12 1,3,5-trimethylben	10.0	9.30	93.00	80-120
13 Naphthalene	10.0	8.03	80.30	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 10 p-Bromofluorobenze	20.0	20.0	100.00	81-119

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2123.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

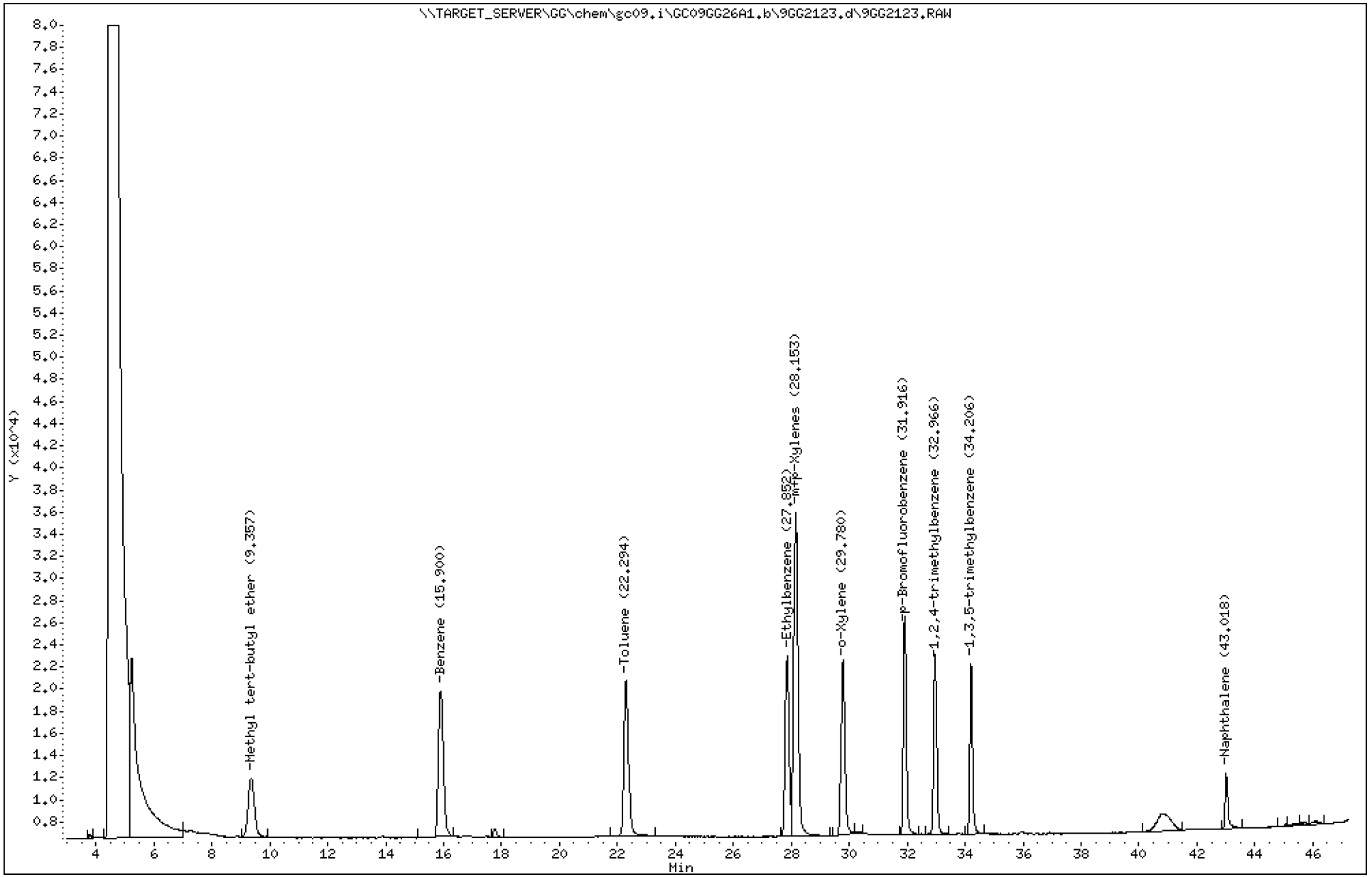
Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2123.d
Lab Smp Id: WG127983-2
Inj Date : 26-JUL-2013 10:52
Operator : EKC   Inst ID: gc09.i
Smp Info : WG127983-2
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr   Quant Type: ESTD
Cal Date : 26-JUL-2013 10:52   Cal File: 9GG2123.d
Als bottle: 1   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				1267453	100.000	100	
	2 Methyl tert-butyl ether	9.356	9.357	-0.001	81806	10.0000	10.0	
	3 Benzene	15.900	15.900	0.000	158596	10.0000	10.0	
	5 Toluene	22.294	22.294	0.000	160413	10.0000	10.0	
	7 Ethylbenzene	27.851	27.852	-0.001	148233	10.0000	10.0	
	8 m+p-Xylenes	28.152	28.153	-0.001	308698	20.0000	20.0	
	9 o-Xylene	29.779	29.780	-0.001	148894	10.0000	10.0	
$	10 p-Bromofluorobenzene	31.915	31.916	-0.001	138709	20.0000	20.0	
	11 1,2,4-trimethylbenzene	32.966	32.966	0.000	121019	10.0000	10.0	
	12 1,3,5-trimethylbenzene	34.205	34.206	-0.001	106204	10.0000	10.0	
	13 Naphthalene	43.017	43.018	-0.001	33590	10.0000	10.0	

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2123.d
Date : 26-JUL-2013 10:52
Client ID:
Instrument: gc09.i
Sample Info: WG127983-2
Purge Volume: 0.0
Operator: EKC
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000451

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2124.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

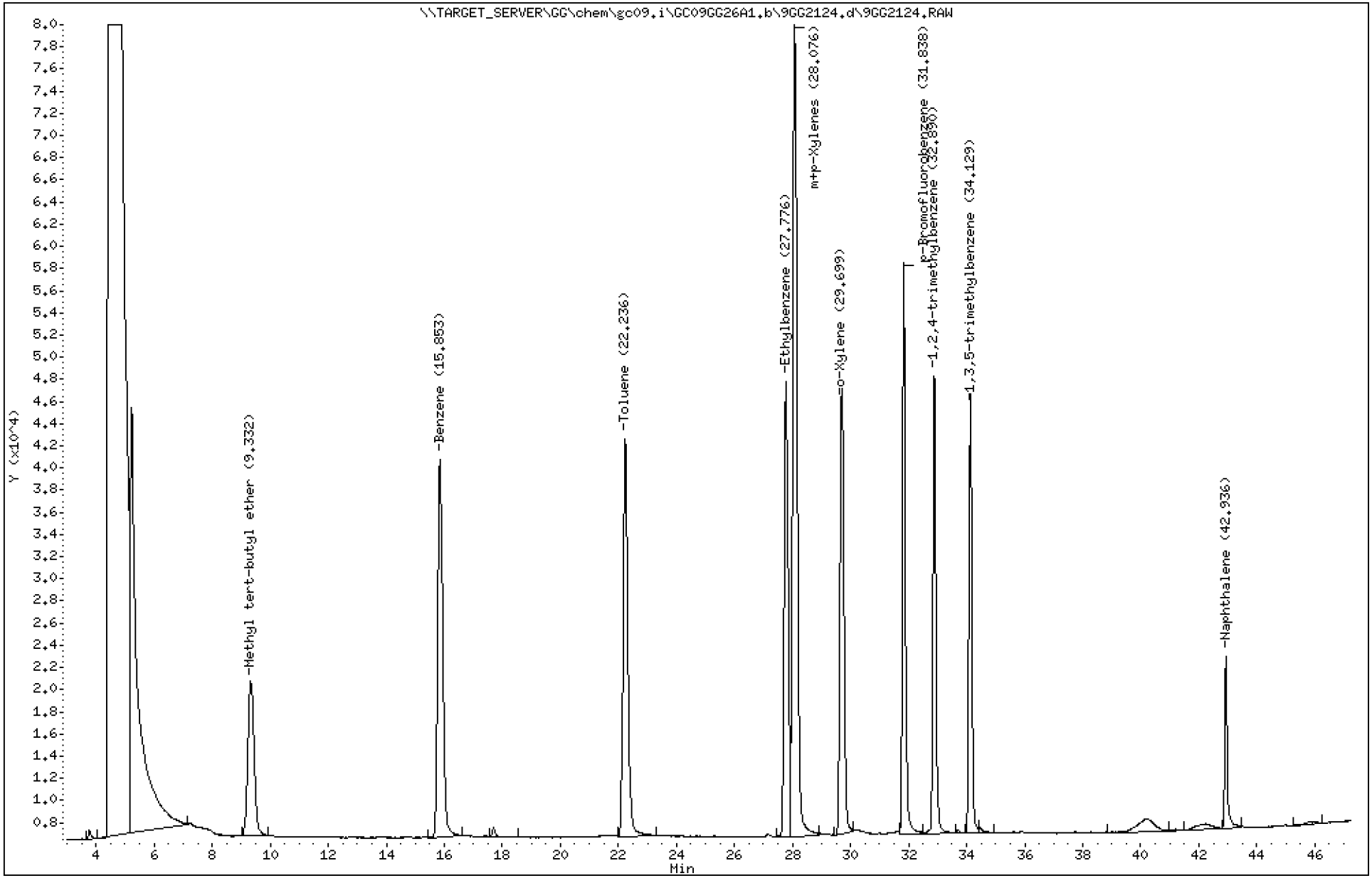
Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2124.d
Lab Smp Id: WG127983-3
Inj Date : 26-JUL-2013 11:46
Operator : EKC Inst ID: gc09.i
Smp Info : WG127983-3
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr Quant Type: ESTD
Cal Date : 26-JUL-2013 11:46 Cal File: 9GG2124.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				3228340	250.000	253	
	2	Methyl tert-butyl ether	9.332	9.357	-0.025	209497	25.0000	25.3	
	3	Benzene	15.852	15.900	-0.048	411210	25.0000	25.4	
	5	Toluene	22.235	22.294	-0.059	407161	25.0000	25.2	
	7	Ethylbenzene	27.775	27.852	-0.077	376453	25.0000	25.2	
	8	m+p-Xylenes	28.076	28.153	-0.077	777614	50.0000	50.2	
	9	o-Xylene	29.699	29.780	-0.081	372395	25.0000	25.0	
$	10	p-Bromofluorobenzene	31.837	31.916	-0.079	364986	50.0000	51.3	
	11	1,2,4-trimethylbenzene	32.890	32.966	-0.076	308679	25.0000	25.2	
	12	1,3,5-trimethylbenzene	34.128	34.206	-0.078	268578	25.0000	25.1	
	13	Naphthalene	42.936	43.018	-0.082	96753	25.0000	26.8	

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2124.d
Date : 26-JUL-2013 11:46
Client ID:
Instrument: gc09.i
Sample Info: WG127983-3
Purge Volume: 0.0
Operator: EKC
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000453

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2125.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

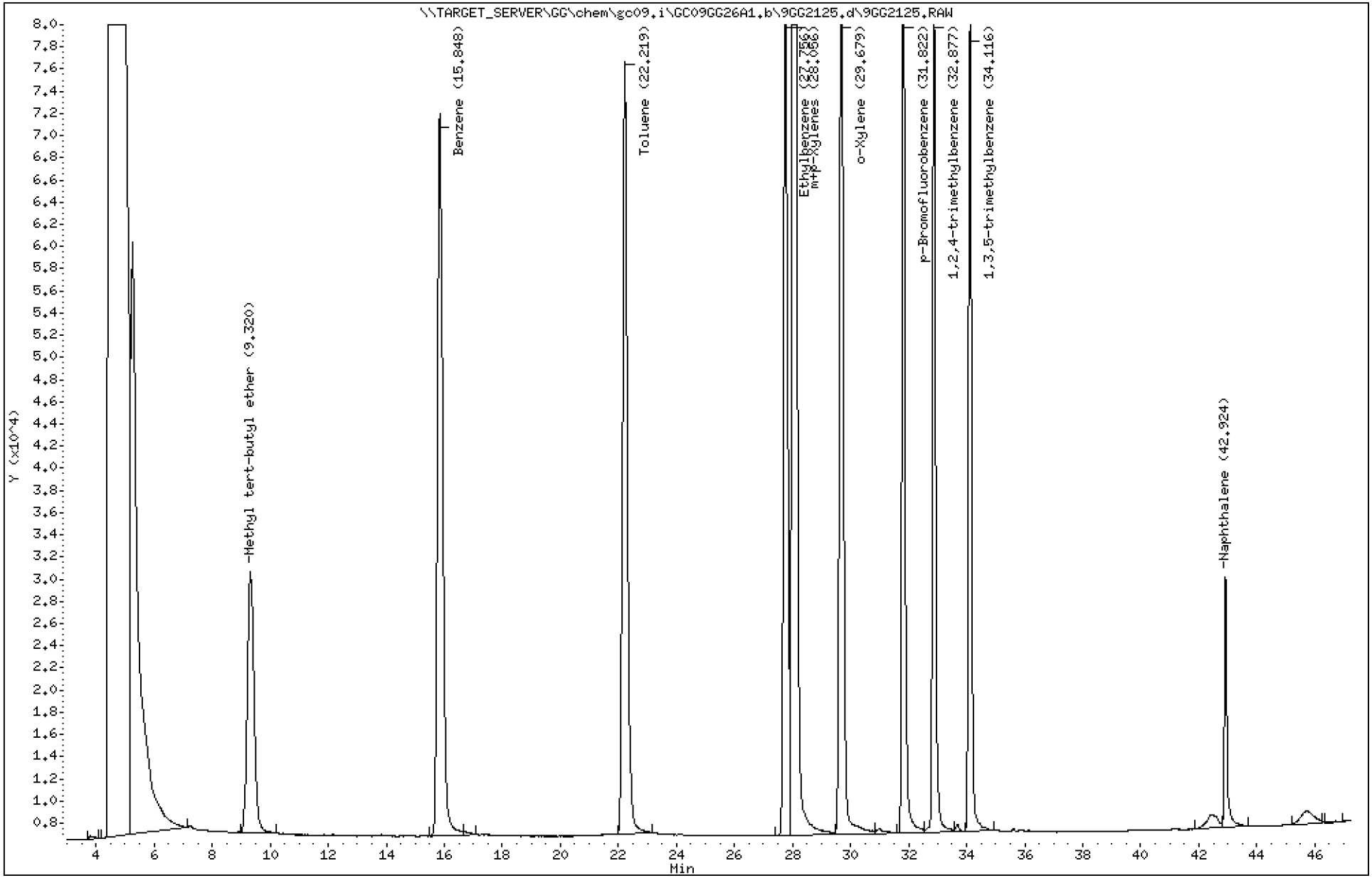
Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2125.d
Lab Smp Id: WG127983-4
Inj Date : 26-JUL-2013 12:39
Operator : EKC   Inst ID: gc09.i
Smp Info : WG127983-4
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr   Quant Type: ESTD
Cal Date : 26-JUL-2013 12:39   Cal File: 9GG2125.d
Als bottle: 1   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				6383811	500.000	493	
	2 Methyl tert-butyl ether	9.320	9.357	-0.037	378455	50.0000	47.0	
	3 Benzene	15.847	15.900	-0.053	836968	50.0000	51.2	
	5 Toluene	22.218	22.294	-0.076	808321	50.0000	50.0	
	7 Ethylbenzene	27.755	27.852	-0.097	750944	50.0000	50.2	
	8 m+p-Xylenes	28.055	28.153	-0.098	1555869	100.000	100	
	9 o-Xylene	29.679	29.780	-0.101	772132	50.0000	51.2	
$	10 p-Bromofluorobenzene	31.822	31.916	-0.094	702275	100.000	99.1	
	11 1,2,4-trimethylbenzene	32.876	32.966	-0.090	603539	50.0000	49.6	
	12 1,3,5-trimethylbenzene	34.116	34.206	-0.090	527596	50.0000	49.6	
	13 Naphthalene	42.924	43.018	-0.094	149987	50.0000	44.0	

Data File: \\TARGET_SERVER\GC\chem\gc09.i\GC09GC26A1.b\9GC2125.d
Date : 26-JUL-2013 12:39
Client ID:
Instrument: gc09.i
Sample Info: WG127983-4
Purge Volume: 0.0
Operator: EKC
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000455

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2126.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2126.d
Lab Smp Id: WG127983-5
Inj Date : 26-JUL-2013 13:32
Operator : EKC   Inst ID: gc09.i
Smp Info : WG127983-5
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr   Quant Type: ESTD
Cal Date : 26-JUL-2013 13:32   Cal File: 9GG2126.d
Als bottle: 1   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

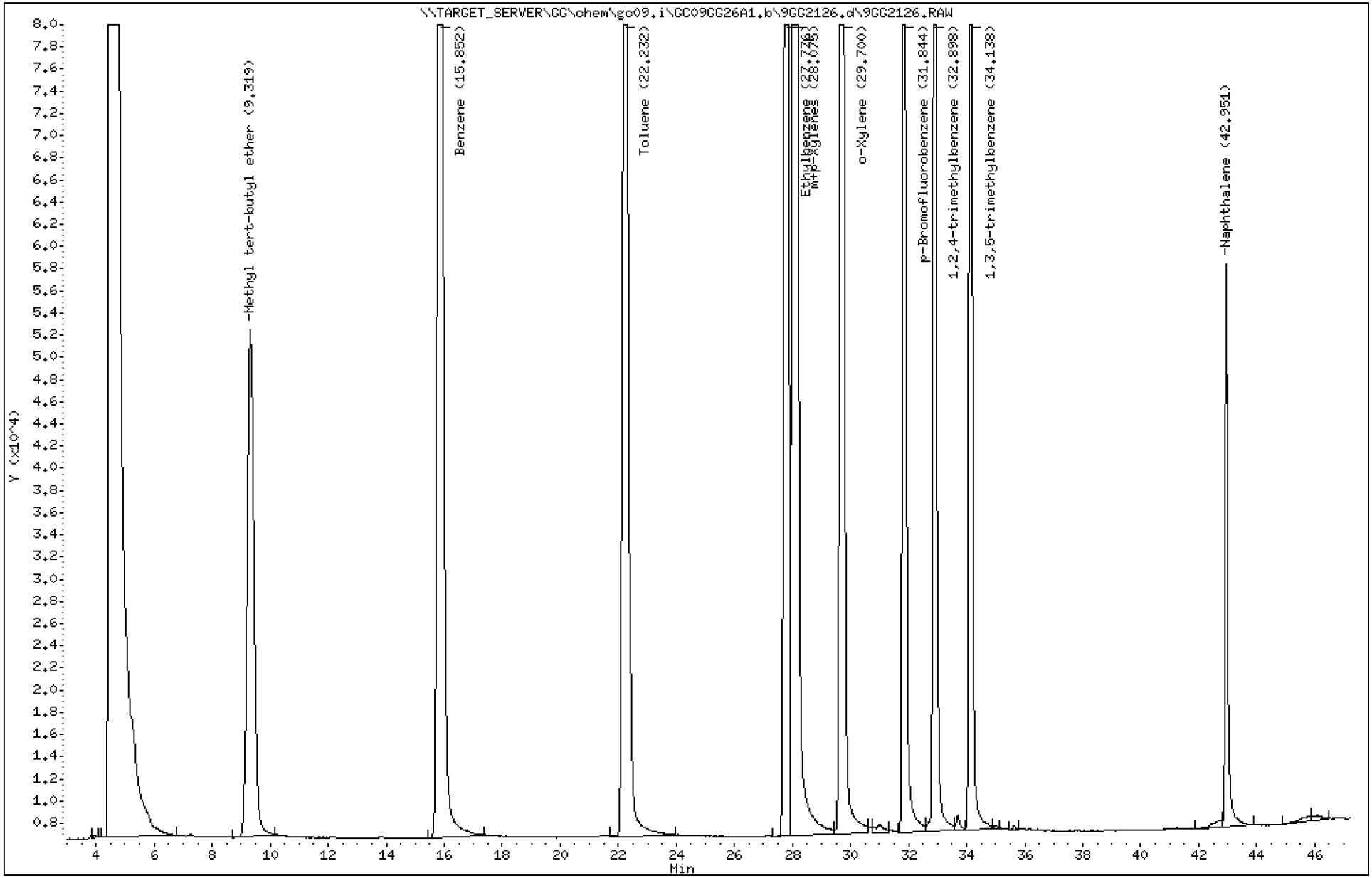
Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				12909686	1000.00	1000	
	2 Methyl tert-butyl ether	9.318	9.357	-0.039	747725	100.000	94.6	
	3 Benzene	15.851	15.900	-0.049	1701457	100.000	103	
	5 Toluene	22.231	22.294	-0.063	1655535	100.000	102	
	7 Ethylbenzene	27.776	27.852	-0.076	1511410	100.000	101	
	8 m+p-Xylenes	28.075	28.153	-0.078	3127618	200.000	201	
	9 o-Xylene	29.700	29.780	-0.080	1541024	100.000	102	
$	10 p-Bromofluorobenzene	31.844	31.916	-0.072	1387333	200.000	197	
	11 1,2,4-trimethylbenzene	32.897	32.966	-0.069	1226204	100.000	100	
	12 1,3,5-trimethylbenzene	34.138	34.206	-0.068	1076450	100.000	101	
	13 Naphthalene	42.951	43.018	-0.067	322263	100.000	95.8	

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2126.d
Date : 26-JUL-2013 13:32
Client ID:
Sample Info: WG127983-5
Purge Volume: 0.0
Column phase: RTX-624

Instrument: gc09.i
Operator: EKC
Column diameter: 0.53



Katahdin Analytical Services 0000457

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2127.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2127.d
Lab Smp Id: WG127983-6
Inj Date : 26-JUL-2013 14:25
Operator : EKC   Inst ID: gc09.i
Smp Info : WG127983-6
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr   Quant Type: ESTD
Cal Date : 26-JUL-2013 14:25   Cal File: 9GG2127.d
Als bottle: 1   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

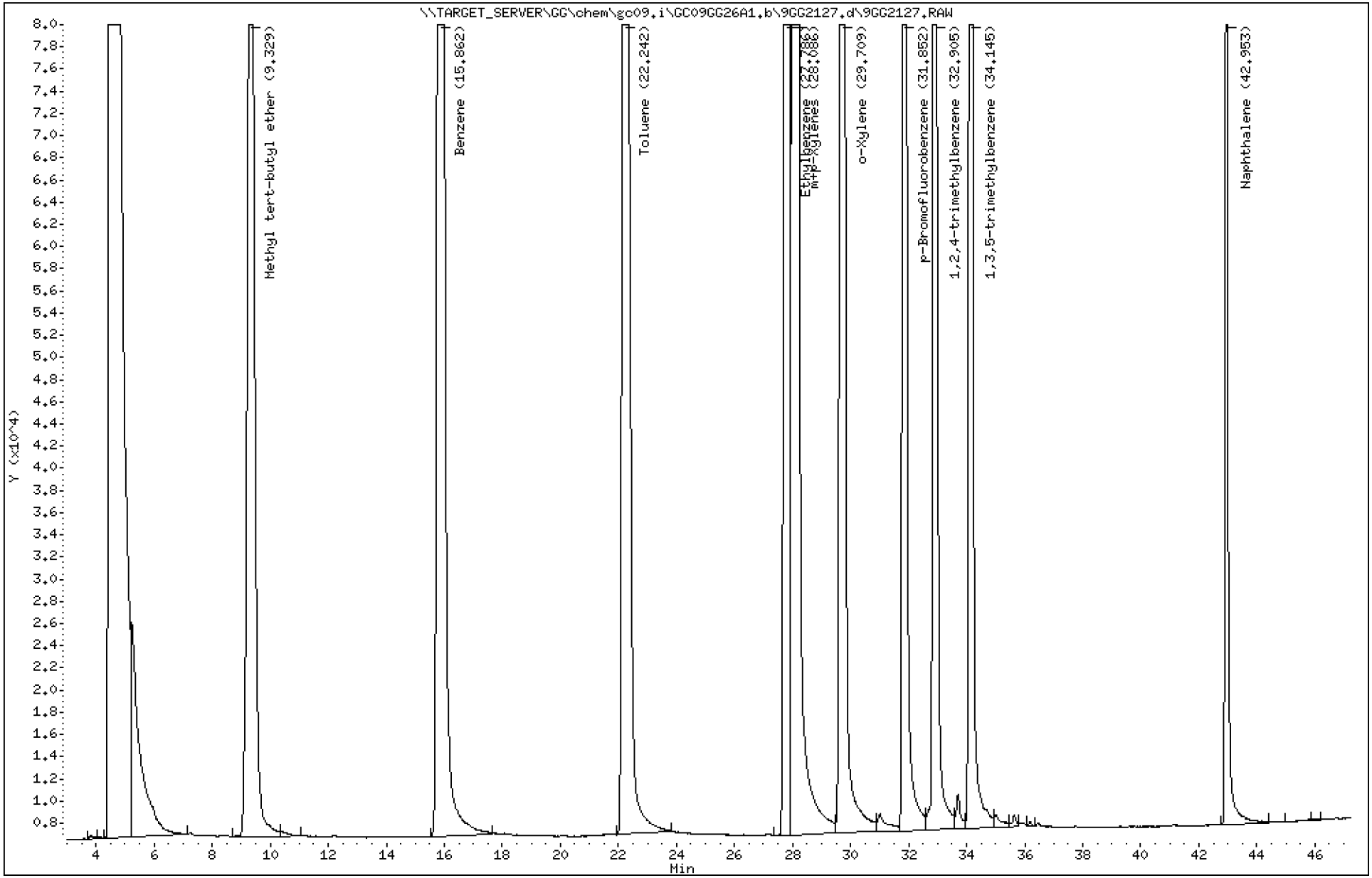
						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				26563385	2000.00	2060	
	2 Methyl tert-butyl ether	9.329	9.357	-0.028	1629782	200.000	205(A)	
	3 Benzene	15.862	15.900	-0.038	3465279	200.000	208(A)	
	5 Toluene	22.242	22.294	-0.052	3343646	200.000	204(A)	
	7 Ethylbenzene	27.786	27.852	-0.066	3059534	200.000	203(A)	
	8 m+p-Xylenes	28.086	28.153	-0.067	6349647	400.000	407(A)	
	9 o-Xylene	29.709	29.780	-0.071	3157679	200.000	206(A)	
$	10 p-Bromofluorobenzene	31.852	31.916	-0.064	2858153	400.000	404(A)	
	11 1,2,4-trimethylbenzene	32.905	32.966	-0.061	2551361	200.000	207(A)	
	12 1,3,5-trimethylbenzene	34.145	34.206	-0.061	2270475	200.000	210(A)	
	13 Naphthalene	42.952	43.018	-0.066	735982	200.000	215(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2127.d
Date : 26-JUL-2013 14:25
Client ID:
Sample Info: WG127983-6
Purge Volume: 0.0
Column phase: RTX-624

Instrument: gc09.i
Operator: EKC
Column diameter: 0.53



Katahdin Analytical Services 0000459

Data File: 9GG2130.d
Report Date: 28-Oct-2013 14:38

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gc09.i\GC09GGicalchecks.b\9GG2130.d
Lab Smp Id: WG127983-1
Inj Date : 26-JUL-2013 17:56
Operator : EKC   Inst ID: gc09.i
Smp Info : WG127983-1
Misc Info : WG127426,WG115745-2
Comment   : SW846 5030B
Method   : \\target_server\GG\chem\gc09.i\GC09GGicalchecks.b\GROB017A.m
Meth Date : 17-Oct-2013 11:59 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				121758	9.46411	9.46	
	2 Methyl tert-butyl ether	9.301	9.357	-0.056	6010	0.78793	0.788	
	3 Benzene	15.860	15.900	-0.040	15826	0.95708	0.957	
	5 Toluene	22.233	22.294	-0.061	15470	0.95457	0.954	
	7 Ethylbenzene	27.805	27.852	-0.047	14185	0.95098	0.951	
	8 m+p-Xylenes	28.109	28.153	-0.044	29569	1.91091	1.91	
	9 o-Xylene	29.742	29.780	-0.038	16358	1.05781	1.06	
$	10 p-Bromofluorobenzene	31.892	31.916	-0.024	12863	1.84762	1.85(R)	
	11 1,2,4-trimethylbenzene	32.951	32.966	-0.015	11095	0.91652	0.916	
	12 1,3,5-trimethylbenzene	34.196	34.206	-0.010	9784	0.91989	0.920	
	13 Naphthalene	43.019	43.018	0.001	3461	1.00843	1.01	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2130.d
Report Date: 22-Aug-2013 11:46

Katahdin Analytical Services

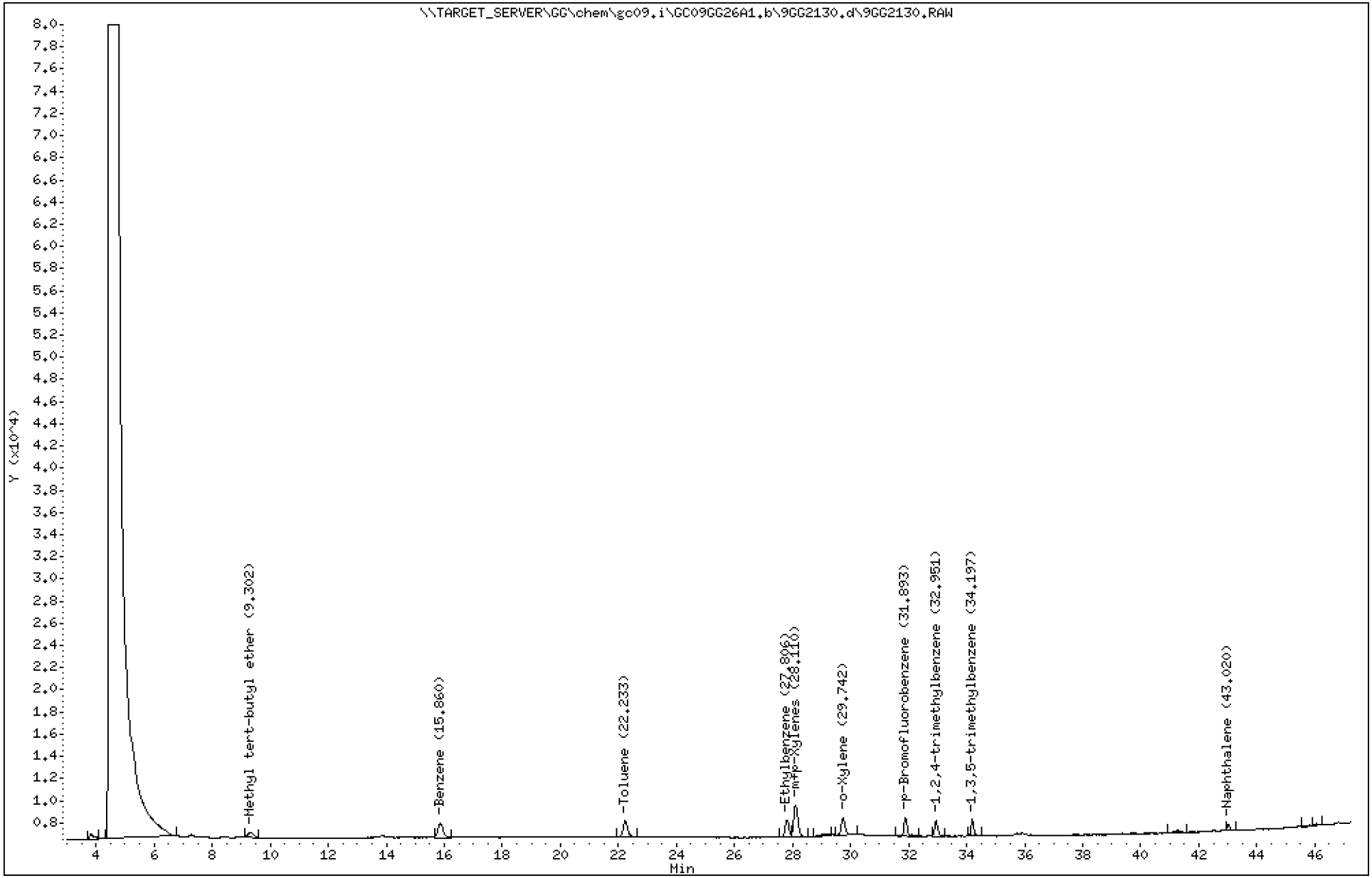
Data file : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2130.d
Lab Smp Id: WG127983-1
Inj Date : 26-JUL-2013 17:56
Operator : EKC Inst ID: gc09.i
Smp Info : WG127983-1
Misc Info :
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.B\GROB017A.m
Meth Date : 29-Jul-2013 12:07 ecyr Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				121758	10.0000	9.46	
	2 Methyl tert-butyl ether	9.301	9.357	-0.056	6010	1.00000	0.788	
	3 Benzene	15.860	15.900	-0.040	15826	1.00000	0.957	
	5 Toluene	22.233	22.294	-0.061	15470	1.00000	0.954	
	7 Ethylbenzene	27.805	27.852	-0.047	14185	1.00000	0.951	
	8 m+p-Xylenes	28.109	28.153	-0.044	29569	2.00000	1.91	
	9 o-Xylene	29.742	29.780	-0.038	16358	1.00000	1.06	
$	10 p-Bromofluorobenzene	31.892	31.916	-0.024	12863	2.00000	1.85	
	11 1,2,4-trimethylbenzene	32.951	32.966	-0.015	11095	1.00000	0.916	
	12 1,3,5-trimethylbenzene	34.196	34.206	-0.010	9784	1.00000	0.920	
	13 Naphthalene	43.019	43.018	0.001	3461	1.00000	1.01	

Data File: \\TARGET_SERVER\GG\chem\gc09.i\GC09GG26A1.b\9GG2130.d
Date : 26-JUL-2013 17:56
Client ID:
Instrument: gc09.i
Sample Info: WG127983-1
Purge Volume: 0.0
Operator: EKC
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000462

Data File: \\target_server\GG\chem\gc09.i\GC09GG26A1.b\9GG2131.d
Report Date: 17-Oct-2013 12:00

Katahdin Analytical Services

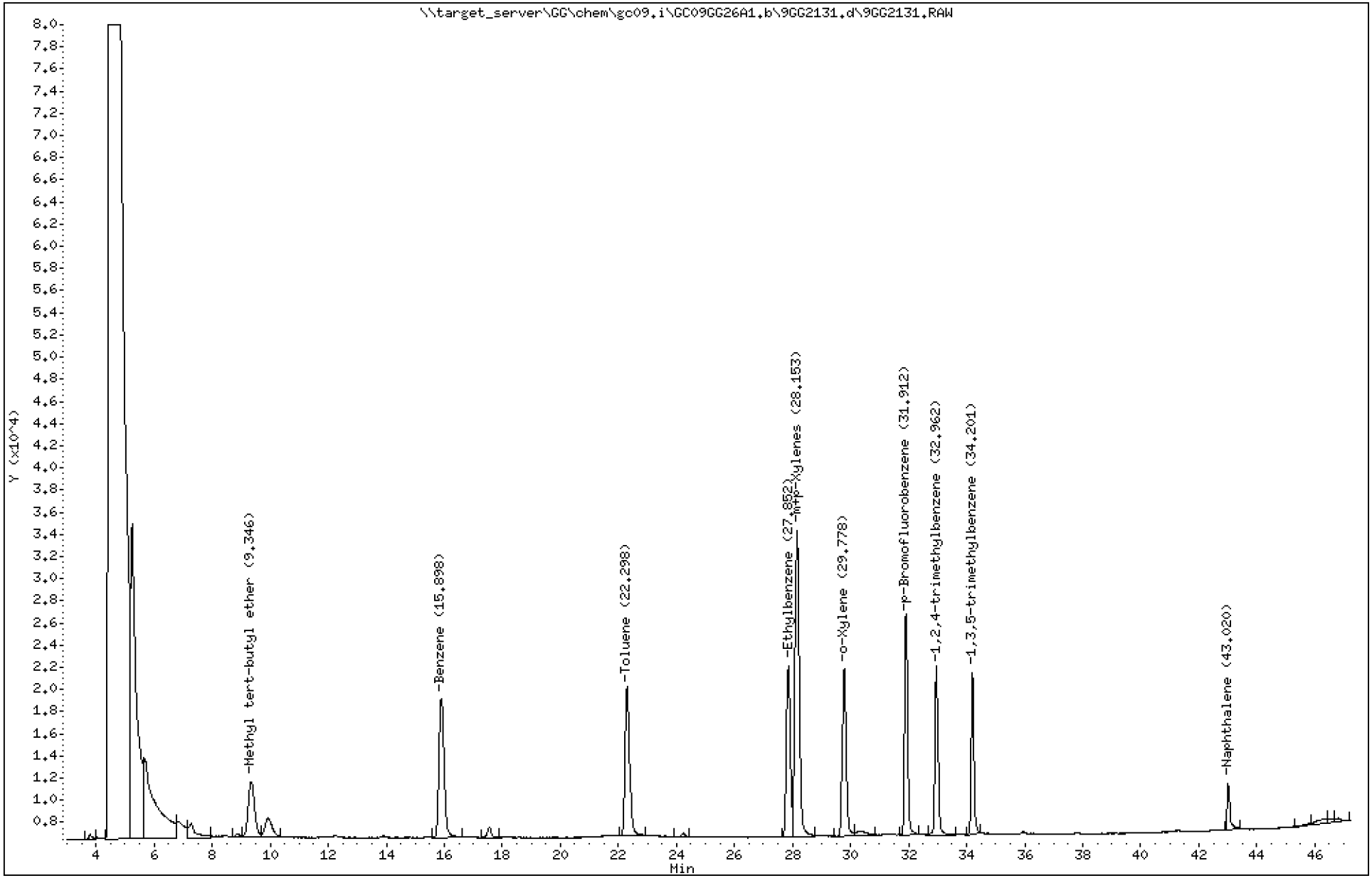
Data file : \\target_server\GG\chem\gc09.i\GC09GG26A1.b\9GG2131.d
Lab Smp Id: WG127983-7
Inj Date : 26-JUL-2013 18:50
Operator : EKC Inst ID: gc09.i
Smp Info : WG127983-7,SG5385
Misc Info : WG127983,WG127983-2,SG5385-1
Comment   : SW846 5030B
Method   : \\target_server\GG\chem\gc09.i\GC09GG26A1.b\GROB017A.m
Meth Date : 17-Oct-2013 11:59 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: IND CHECK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				1196622	92.9973	93.0	
	2	Methyl tert-butyl ether	9.346	9.357	-0.011	77998	10.2257	10.2	
	3	Benzene	15.898	15.900	-0.002	154354	9.33458	9.33	
	5	Toluene	22.298	22.294	0.004	149969	9.25375	9.25	
	7	Ethylbenzene	27.851	27.852	-0.001	140538	9.42185	9.42	
	8	m+p-Xylenes	28.153	28.153	0.000	289404	18.7029	18.7	
	9	o-Xylene	29.777	29.780	-0.003	143528	9.28138	9.28	
$	10	p-Bromofluorobenzene	31.911	31.916	-0.005	139288	20.0071	20.0	
	11	1,2,4-trimethylbenzene	32.961	32.966	-0.005	114327	9.44413	9.44	
	12	1,3,5-trimethylbenzene	34.201	34.206	-0.005	98943	9.30261	9.30	
	13	Naphthalene	43.019	43.018	0.001	27561	8.03044	8.03	

Data File: \\target_server\GC\chem\gc09.i\GC09GC26A1.b\9GC2131.d
Date : 26-JUL-2013 18:50
Client ID:
Instrument: gc09.i
Sample Info: WG127983-7,SG5385
Purge Volume: 0.0
Operator: EKC
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000464

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG134903-4
Lab File ID : 9GK4001A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/23/13 10:15
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF100	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Gasoline Range Organic	12787	12294	0.100	-3.86072	20.00000	Averaged	
2	Methyl tert-butyl ether	7628	7523	0.100	-1.37164	20.00000	Averaged	
3	Benzene	16536	15133	0.100	-8.48600	20.00000	Averaged	
5	Toluene	16206	14609	0.100	-9.85537	20.00000	Averaged	
7	Ethylbenzene	14916	13823	0.100	-7.33015	20.00000	Averaged	
8	m+p-Xylenes	15474	14442	0.100	-6.67008	20.00000	Averaged	
9	o-Xylene	15464	15063	0.100	-2.59297	20.00000	Averaged	
11	1,2,4-trimethylbenzene	12106	11809	0.100	-2.45352	20.00000	Averaged	
12	1,3,5-trimethylbenzene	10636	10969	0.100	3.12661	20.00000	Averaged	
13	Naphthalene	3432	5124	0.100	49.29489	20.00000	Averaged	<-
10	p-Bromofluorobenzene	6962	6230	0.100	-10.51954	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4001A.d
Report Date: 29-Nov-2013 09:09

Katahdin Analytical Services

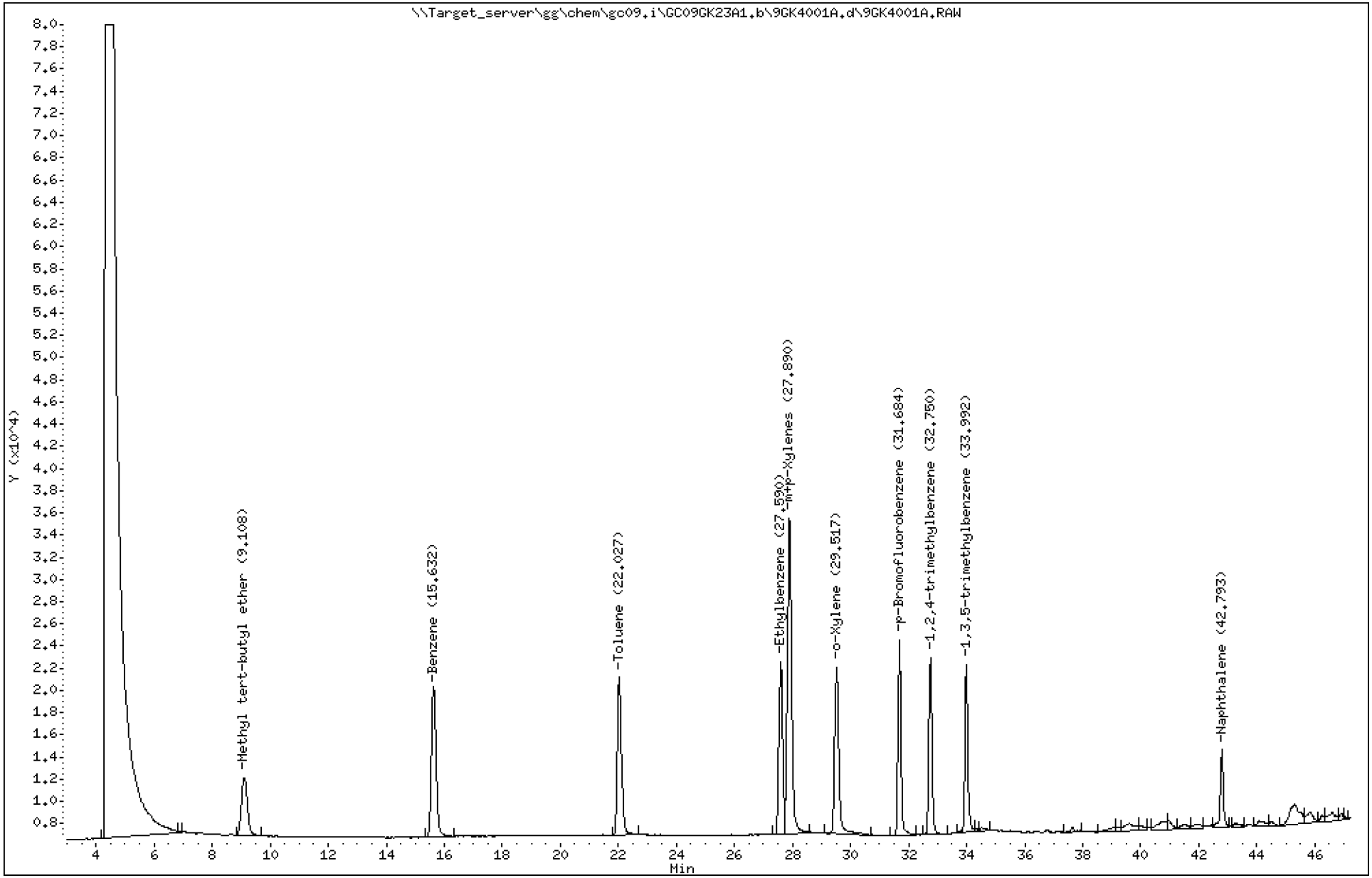
Data file : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4001A.d
Lab Smp Id: WG134903-4
Inj Date : 23-NOV-2013 10:15
Operator : JLP   Inst ID: gc09.i
Smp Info : WG134903-4,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-1
Comment   : SW846 5030B
Method   : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\GROB017A.m
Meth Date : 29-Nov-2013 08:53 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				1229349	100.000	101	
	2	Methyl tert-butyl ether	9.107	9.224	-0.117	75230	10.0000	9.86	
	3	Benzene	15.632	15.900	-0.268	151325	10.0000	9.15	
	5	Toluene	22.027	22.103	-0.076	146091	10.0000	9.01	
	7	Ethylbenzene	27.590	27.685	-0.095	138228	10.0000	9.27	
	8	m+p-Xylenes	27.890	27.985	-0.095	288833	20.0000	18.7	
	9	o-Xylene	29.517	29.614	-0.097	150631	10.0000	9.74	
$	10	p-Bromofluorobenzene	31.683	31.745	-0.062	124591	20.0000	17.9	
	11	1,2,4-trimethylbenzene	32.750	32.966	-0.216	118086	10.0000	9.75	
	12	1,3,5-trimethylbenzene	33.991	33.983	0.008	109686	10.0000	10.3	
	13	Naphthalene	42.793	42.781	0.012	51239	10.0000	14.9	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4001A.d
Date : 23-NOV-2013 10:15
Client ID:
Instrument: gc09.i
Sample Info: WG134903-4,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000467

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG134903-5
Lab File ID : 9GK4015A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/23/13 23:45
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF250	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Gasoline Range Organic	12787	11625	0.100	-9.09249	20.00000	Averaged	
2	Methyl tert-butyl ether	7628	8033	0.100	5.30882	20.00000	Averaged	
3	Benzene	16536	14109	0.100	-14.67345	20.00000	Averaged	
5	Toluene	16206	13716	0.100	-15.36669	20.00000	Averaged	
7	Ethylbenzene	14916	12920	0.100	-13.38130	20.00000	Averaged	
8	m+p-Xylenes	15474	13271	0.100	-14.23702	20.00000	Averaged	
9	o-Xylene	15464	13513	0.100	-12.61892	20.00000	Averaged	
11	1,2,4-trimethylbenzene	12106	11144	0.100	-7.94123	20.00000	Averaged	
12	1,3,5-trimethylbenzene	10636	9926	0.100	-6.67402	20.00000	Averaged	
13	Naphthalene	3432	6342	0.100	84.79944	20.00000	Averaged	<-
10	p-Bromofluorobenzene	6962	5854	0.100	-15.91074	20.00000	Averaged	

*** = Compound out of QC criteria**

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http://katahdinlab.com
sales@katahdinlab.com

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4015A.d
Report Date: 29-Nov-2013 09:09

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4015A.d
Lab Smp Id: WG134903-5
Inj Date : 23-NOV-2013 23:45
Operator : JLP   Inst ID: gc09.i
Smp Info : WG134903-5,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-1
Comment   : SW846 5030B
Method   : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\GROB017A.m
Meth Date : 29-Nov-2013 08:53 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

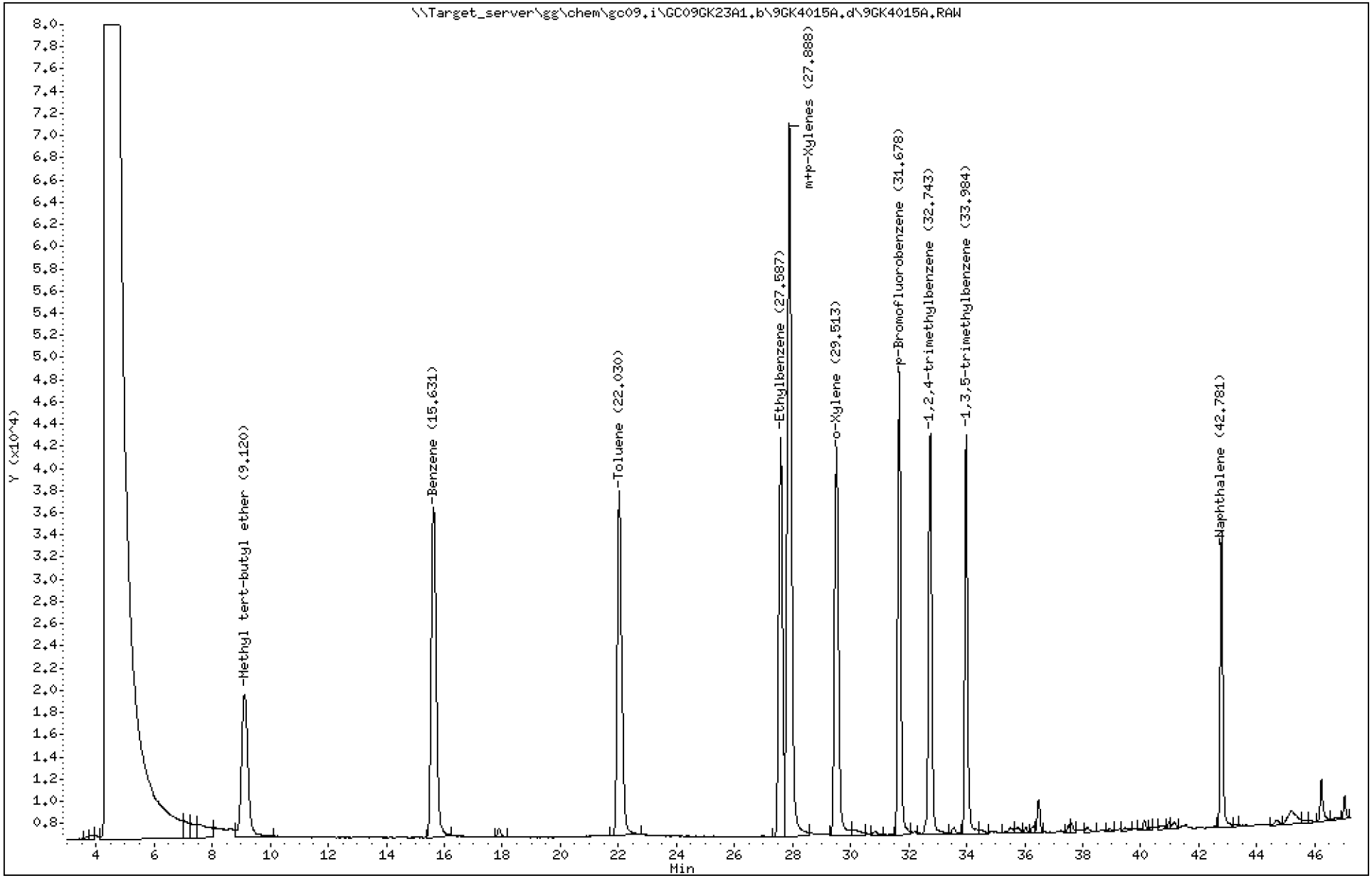
		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				2906129	100.000	248	
	2	Methyl tert-butyl ether	9.120	9.224	-0.104	200814	10.0000	26.3	
	3	Benzene	15.630	15.900	-0.270	352734	10.0000	21.3	
	5	Toluene	22.029	22.103	-0.074	342898	10.0000	21.2	
	7	Ethylbenzene	27.586	27.685	-0.099	323005	10.0000	21.6	
	8	m+p-Xylenes	27.888	27.985	-0.097	663538	20.0000	42.9	
	9	o-Xylene	29.513	29.614	-0.101	337817	10.0000	21.8	
$	10	p-Bromofluorobenzene	31.677	31.745	-0.068	292711	20.0000	42.0	
	11	1,2,4-trimethylbenzene	32.742	32.966	-0.224	278607	10.0000	23.0	
	12	1,3,5-trimethylbenzene	33.983	33.983	0.000	248155	10.0000	23.3	
	13	Naphthalene	42.781	42.781	0.000	158561	10.0000	46.2	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4015A.d
Date : 23-NOV-2013 23:45
Client ID:
Sample Info: WG134903-5,WE40-1

Instrument: gc09.i

Operator: JLP
Column diameter: 0.53

Column phase: RTX-624



Katahdin Analytical Services 0000470

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG134903-6
Lab File ID : 9GK4020A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/25/13 08:06
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF100	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	Gasoline Range Organic	12787	13055	0.100	2.09200	20.00000	Averaged
2	Methyl tert-butyl ether	7628	8000	0.100	4.87802	20.00000	Averaged
3	Benzene	16536	16560	0.100	0.14622	20.00000	Averaged
5	Toluene	16206	16044	0.100	-1.00325	20.00000	Averaged
7	Ethylbenzene	14916	15136	0.100	1.47639	20.00000	Averaged
8	m+p-Xylenes	15474	15932	0.100	2.96009	20.00000	Averaged
9	o-Xylene	15464	15285	0.100	-1.15674	20.00000	Averaged
11	1,2,4-trimethylbenzene	12106	12929	0.100	6.79921	20.00000	Averaged
12	1,3,5-trimethylbenzene	10636	11167	0.100	4.99008	20.00000	Averaged
13	Naphthalene	3432	3563	0.100	3.80626	20.00000	Averaged
10	p-Bromofluorobenzene	6962	6689	0.100	-3.91934	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4020A.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

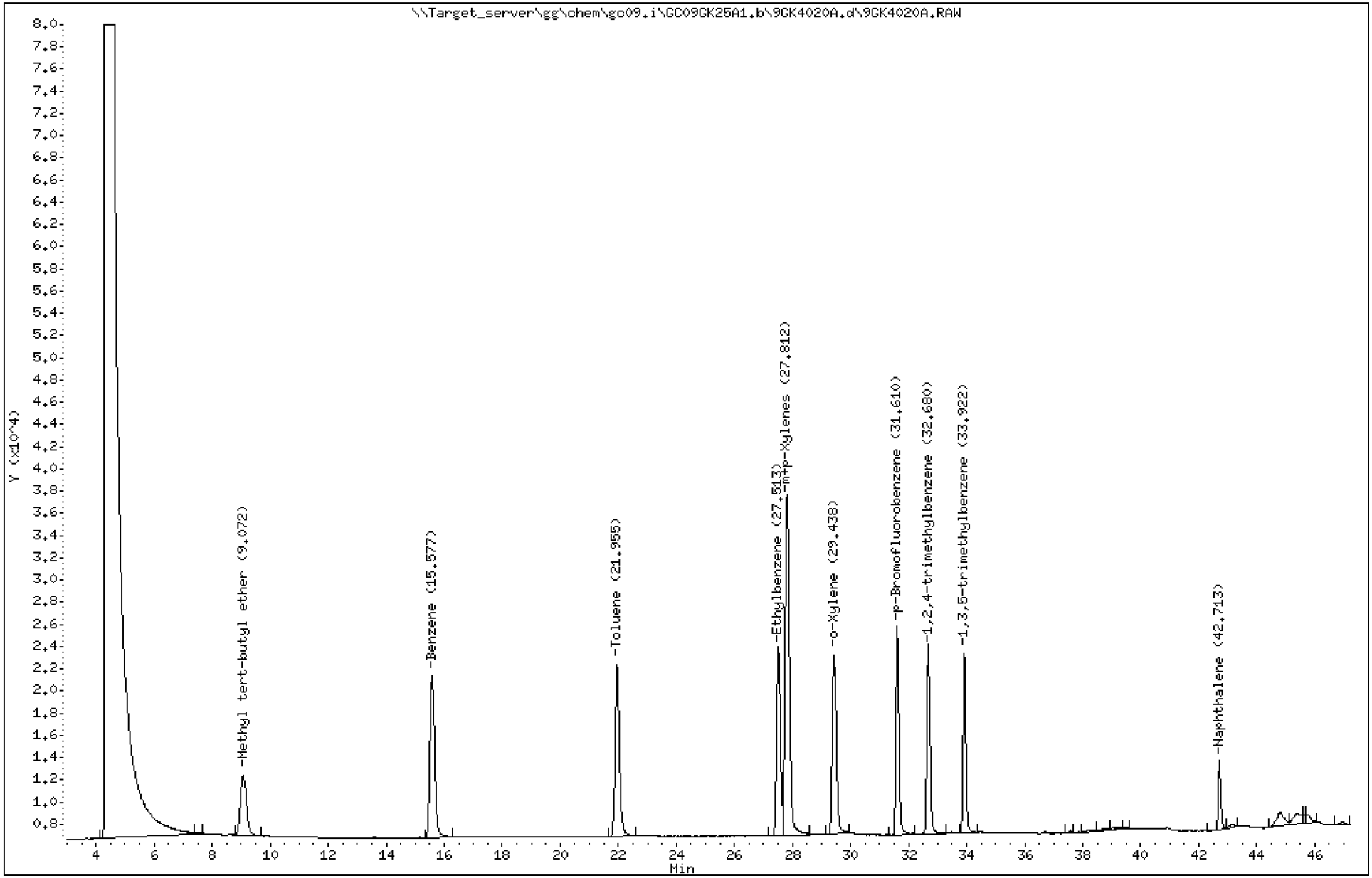
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4020A.d
Lab Smp Id: WG134903-6
Inj Date : 25-NOV-2013 08:06
Operator : JLP   Inst ID: gc09.i
Smp Info : WG134903-6,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-3
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				1305467	100.000	102	
	2 Methyl tert-butyl ether	9.072	9.085	-0.013	79997	10.0000	10.5	
	3 Benzene	15.577	15.589	-0.012	165599	10.0000	10.0	
	5 Toluene	21.955	21.982	-0.027	160437	10.0000	9.90	
	7 Ethylbenzene	27.512	27.538	-0.026	151364	10.0000	10.1	
	8 m+p-Xylenes	27.812	27.839	-0.027	318636	20.0000	20.6	
	9 o-Xylene	29.437	29.464	-0.027	152852	10.0000	9.88	
$	10 p-Bromofluorobenzene	31.610	31.633	-0.023	133781	20.0000	19.2	
	11 1,2,4-trimethylbenzene	32.680	32.700	-0.020	129287	10.0000	10.7	
	12 1,3,5-trimethylbenzene	33.921	33.941	-0.020	111668	10.0000	10.5	
	13 Naphthalene	42.712	42.734	-0.022	35627	10.0000	10.4	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4020A.d
Date : 25-NOV-2013 08:06
Client ID:
Instrument: gc09.i
Sample Info: WG134903-6,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000473

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG134903-7
Lab File ID : 9GK4032A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/25/13 20:43
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF250	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	Gasoline Range Organic	12787	12072	0.100	-5.59460	20.00000	Averaged
2	Methyl tert-butyl ether	7628	9000	0.100	17.99849	20.00000	Averaged
3	Benzene	16536	14997	0.100	-9.30495	20.00000	Averaged
5	Toluene	16206	14857	0.100	-8.32473	20.00000	Averaged
7	Ethylbenzene	14916	13771	0.100	-7.67742	20.00000	Averaged
8	m+p-Xylenes	15474	14302	0.100	-7.57323	20.00000	Averaged
9	o-Xylene	15464	13774	0.100	-10.92829	20.00000	Averaged
11	1,2,4-trimethylbenzene	12106	11513	0.100	-4.89371	20.00000	Averaged
12	1,3,5-trimethylbenzene	10636	10114	0.100	-4.90645	20.00000	Averaged
13	Naphthalene	3432	4087	0.100	19.07927	20.00000	Averaged
10	p-Bromofluorobenzene	6962	6239	0.100	-10.38754	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4032A.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4032A.d
Lab Smp Id: WG134903-7
Inj Date : 25-NOV-2013 20:43
Operator : JLP   Inst ID: gc09.i
Smp Info : WG134903-7,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-3
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				3017948	100.000	244	
	2	Methyl tert-butyl ether	9.070	9.085	-0.015	225012	10.0000	29.5	
	3	Benzene	15.572	15.589	-0.017	374927	10.0000	22.7	
	5	Toluene	21.973	21.982	-0.009	371429	10.0000	22.9	
	7	Ethylbenzene	27.531	27.538	-0.007	344275	10.0000	23.1	
	8	m+p-Xylenes	27.833	27.839	-0.006	715095	20.0000	46.2	
	9	o-Xylene	29.457	29.464	-0.007	344353	10.0000	22.3	
$	10	p-Bromofluorobenzene	31.628	31.633	-0.005	311937	20.0000	44.8	
	11	1,2,4-trimethylbenzene	32.695	32.700	-0.005	287830	10.0000	23.8	
	12	1,3,5-trimethylbenzene	33.936	33.941	-0.005	252855	10.0000	23.8	
	13	Naphthalene	42.731	42.734	-0.003	102172	10.0000	29.8	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4032A.d

Date : 25-NOV-2013 20:43

Client ID:

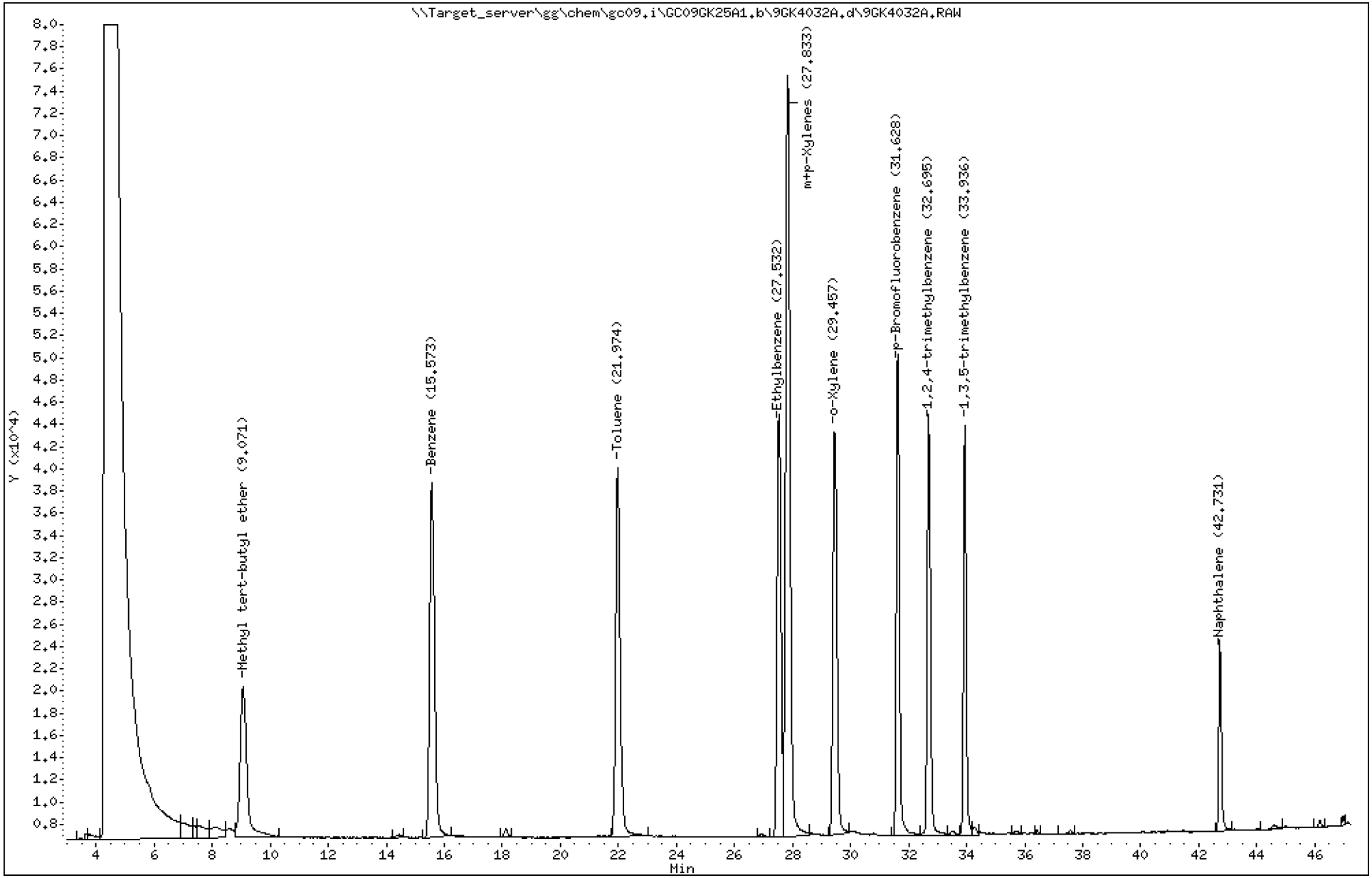
Instrument: gc09.i

Sample Info: WG134903-7,WE40-1

Operator: JLP

Column phase: RTX-624

Column diameter: 0.53



Katahdin Analytical Services 0000476

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG134903-8
Lab File ID : 9GK4040.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/26/13 04:00
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF100	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Gasoline Range Organic	12787	12233	0.100	-4.33218	20.00000	Averaged	
2	Methyl tert-butyl ether	7628	8708	0.100	14.15876	20.00000	Averaged	
3	Benzene	16536	15027	0.100	-9.12522	20.00000	Averaged	
5	Toluene	16206	14731	0.100	-9.10134	20.00000	Averaged	
7	Ethylbenzene	14916	13823	0.100	-7.32613	20.00000	Averaged	
8	m+p-Xylenes	15474	14271	0.100	-7.77421	20.00000	Averaged	
9	o-Xylene	15464	13429	0.100	-13.16133	20.00000	Averaged	
11	1,2,4-trimethylbenzene	12106	12420	0.100	2.59537	20.00000	Averaged	
12	1,3,5-trimethylbenzene	10636	10829	0.100	1.81503	20.00000	Averaged	
13	Naphthalene	3432	4824	0.100	40.54797	20.00000	Averaged	<-
10	p-Bromofluorobenzene	6962	6082	0.100	-12.63462	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4040.d
Report Date: 27-Nov-2013 15:22

Katahdin Analytical Services

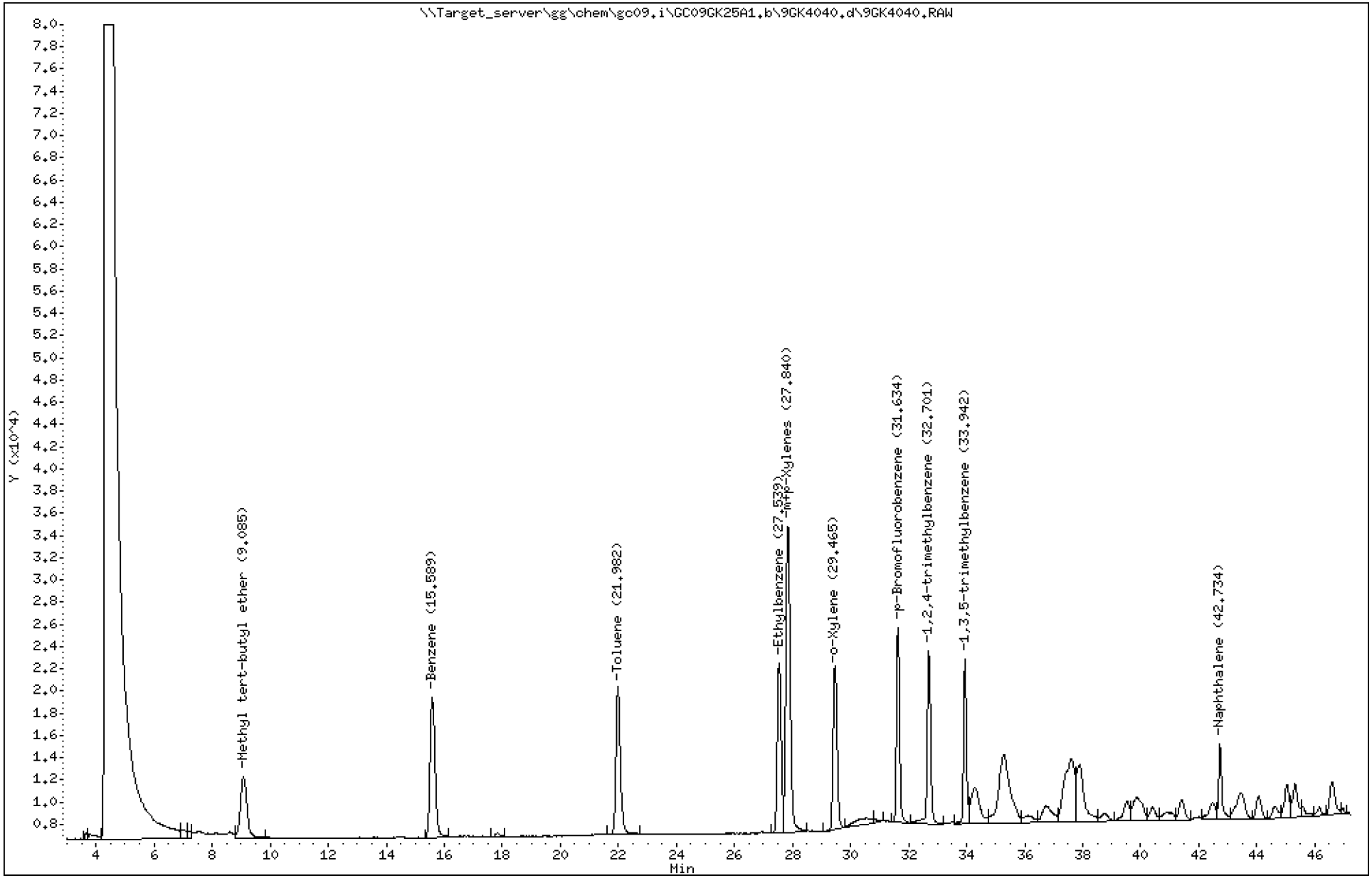
Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4040.d
Lab Smp Id: WG134903-8
Inj Date : 26-NOV-2013 04:00
Operator : JLP   Inst ID: gc09.i
Smp Info : WG134903-8,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-3
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				1223321	100.000	100	
	2	Methyl tert-butyl ether	9.085	9.085	0.000	87076	10.0000	11.4	
	3	Benzene	15.589	15.589	0.000	150268	10.0000	9.09	
	5	Toluene	21.982	21.982	0.000	147313	10.0000	9.09	
	7	Ethylbenzene	27.538	27.538	0.000	138234	10.0000	9.27	
	8	m+p-Xylenes	27.839	27.839	0.000	285416	20.0000	18.4	
	9	o-Xylene	29.464	29.464	0.000	134288	10.0000	8.68	
$	10	p-Bromofluorobenzene	31.633	31.633	0.000	121646	20.0000	17.5	
	11	1,2,4-trimethylbenzene	32.700	32.700	0.000	124198	10.0000	10.2	
	12	1,3,5-trimethylbenzene	33.941	33.941	0.000	108291	10.0000	10.2	
	13	Naphthalene	42.734	42.734	0.000	48237	10.0000	14.0	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4040.d
Date : 26-NOV-2013 04:00
Client ID:
Instrument: gc09.i
Sample Info: WG134903-8,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000479

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG135145-4
Lab File ID : 9GK4041A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/26/13 08:35
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF100	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	Gasoline Range Organic	12787	11600	0.100	-9.28802	20.00000	Averaged
2	Methyl tert-butyl ether	7628	7341	0.100	-3.75770	20.00000	Averaged
3	Benzene	16536	14616	0.100	-11.60893	20.00000	Averaged
5	Toluene	16206	14286	0.100	-11.85028	20.00000	Averaged
7	Ethylbenzene	14916	13217	0.100	-11.39419	20.00000	Averaged
8	m+p-Xylenes	15474	14046	0.100	-9.22990	20.00000	Averaged
9	o-Xylene	15464	13892	0.100	-10.16924	20.00000	Averaged
11	1,2,4-trimethylbenzene	12106	11178	0.100	-7.66433	20.00000	Averaged
12	1,3,5-trimethylbenzene	10636	10050	0.100	-5.51382	20.00000	Averaged
13	Naphthalene	3432	3325	0.100	-3.10794	20.00000	Averaged
10	p-Bromofluorobenzene	6962	5856	0.100	-15.88517	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4041A.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

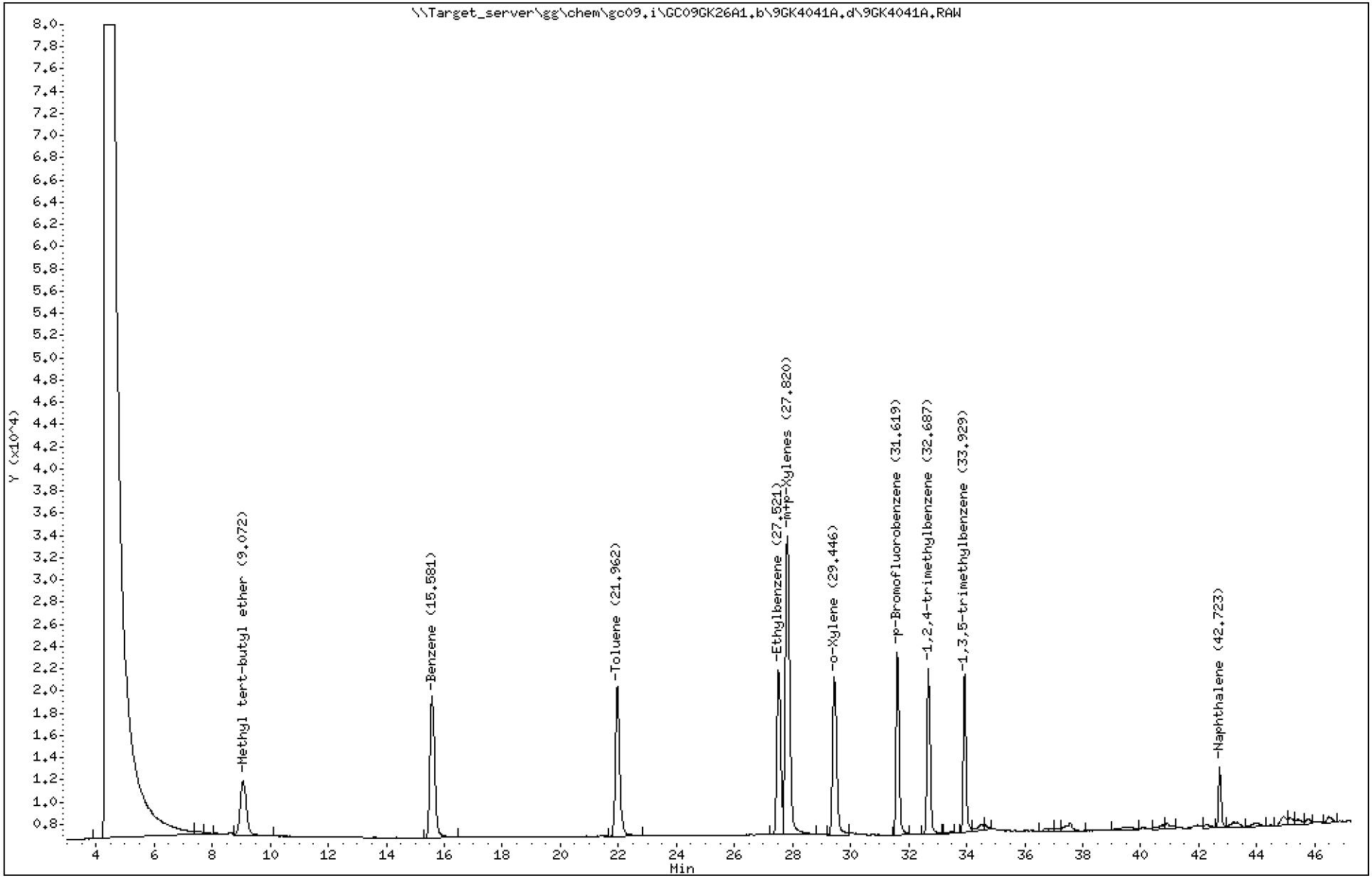
Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4041A.d
Lab Smp Id: WG135145-4
Inj Date : 26-NOV-2013 08:35
Operator : JLP   Inst ID: gc09.i
Smp Info : WG135145-4,WE40-1
Misc Info : WG135145,WG127983-2,SG9180-11
Comment   : SW846 5030B
Method   : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

		Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW CODE
M	1	Gasoline Range Organic				1159949	100.000	91.6	
	2	Methyl tert-butyl ether	9.072	9.085	-0.013	73410	10.0000	9.62	
	3	Benzene	15.580	15.589	-0.009	146161	10.0000	8.84	
	5	Toluene	21.961	21.982	-0.021	142858	10.0000	8.81	
	7	Ethylbenzene	27.520	27.538	-0.018	132166	10.0000	8.86	
	8	m+p-Xylenes	27.819	27.839	-0.020	280911	20.0000	18.2	
	9	o-Xylene	29.445	29.464	-0.019	138915	10.0000	8.98	
$	10	p-Bromofluorobenzene	31.618	31.633	-0.015	117120	20.0000	16.8	
	11	1,2,4-trimethylbenzene	32.687	32.700	-0.013	111778	10.0000	9.23	
	12	1,3,5-trimethylbenzene	33.929	33.941	-0.012	100496	10.0000	9.45	
	13	Naphthalene	42.722	42.734	-0.012	33254	10.0000	9.69	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4041A.d
Date : 26-NOV-2013 08:35
Client ID:
Instrument: gc09.i
Sample Info: WG135145-4,WE40-1
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000482

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport CTO WE40-I
Lab ID : WG135145-5
Lab File ID : 9GK4053A.d
Initial Calibration Date(s): 07/26/13 09:58 07/26/13 17:56

SDG: WE40-1
Analytical Date: 11/26/13 21:38
Instrument ID: GC09
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF250	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	Gasoline Range Organic	12787	11667	0.100	-8.76323	20.00000	Averaged
2	Methyl tert-butyl ether	7628	7848	0.100	2.88395	20.00000	Averaged
3	Benzene	16536	15088	0.100	-8.75245	20.00000	Averaged
5	Toluene	16206	14405	0.100	-11.11229	20.00000	Averaged
7	Ethylbenzene	14916	13452	0.100	-9.81470	20.00000	Averaged
8	m+p-Xylenes	15474	13983	0.100	-9.63284	20.00000	Averaged
9	o-Xylene	15464	13639	0.100	-11.79999	20.00000	Averaged
11	1,2,4-trimethylbenzene	12106	11083	0.100	-8.45107	20.00000	Averaged
12	1,3,5-trimethylbenzene	10636	9544	0.100	-10.27047	20.00000	Averaged
13	Naphthalene	3432	3641	0.100	6.07603	20.00000	Averaged
10	p-Bromofluorobenzene	6962	6019	0.100	-13.54673	20.00000	Averaged

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4053A.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

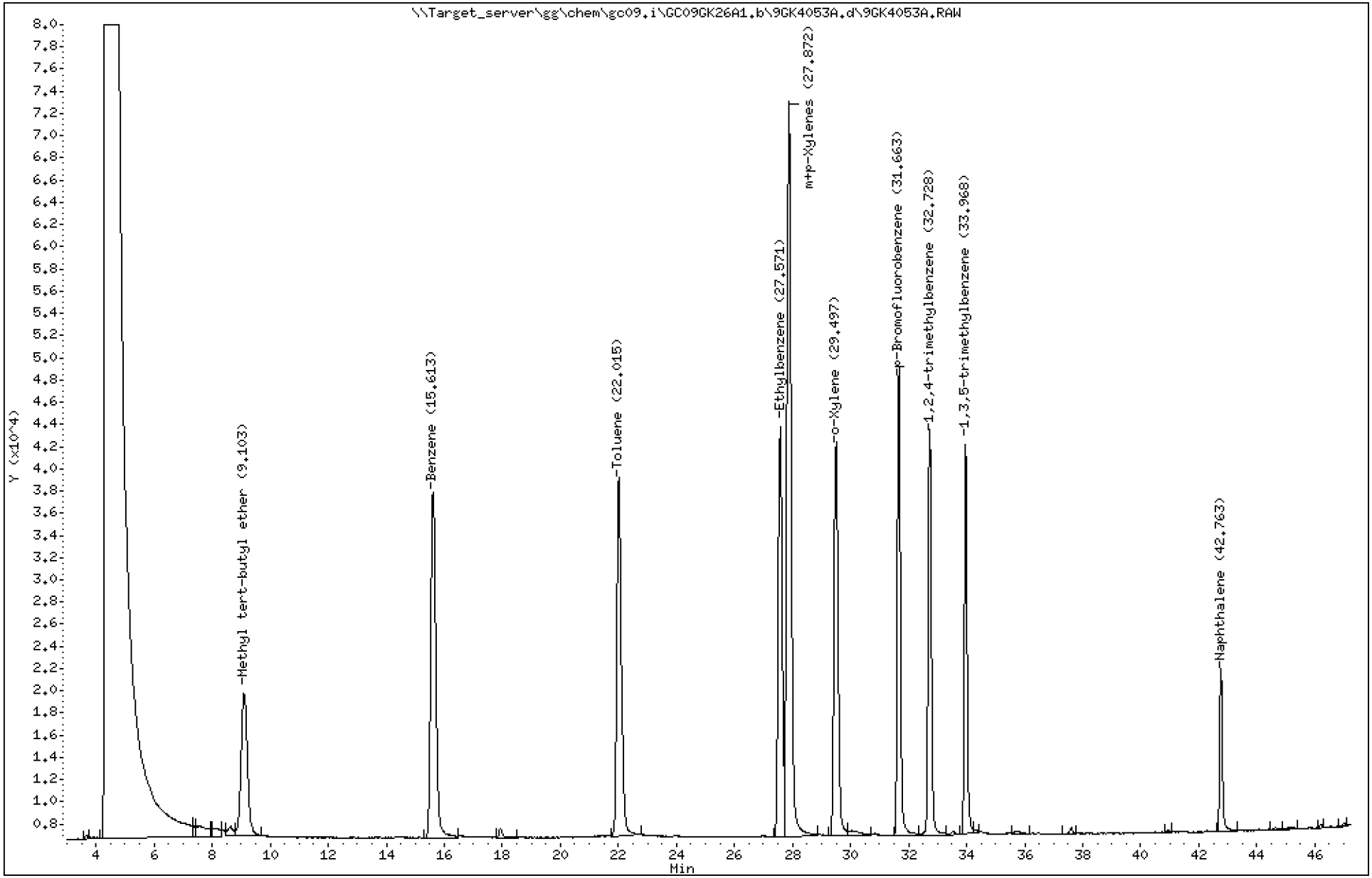
Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4053A.d
Lab Smp Id: WG135145-5
Inj Date : 26-NOV-2013 21:38
Operator : JLP   Inst ID: gc09.i
Smp Info : WG135145-5,WE40-1
Misc Info : WG135145,WG127983-2,SG9180-11
Comment   : SW846 5030B
Method   : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56   Cal File: 9GG2130.d
Als bottle: 1   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie   Compound Sublist: cv.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
						CAL-AMT	ON-COL	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	REVIEW CODE
M	1 Gasoline Range Organic				2916655	100.000	232	
	2 Methyl tert-butyl ether	9.102	9.085	0.017	196190	10.0000	25.7	
	3 Benzene	15.613	15.589	0.024	377211	10.0000	22.8	
	5 Toluene	22.014	21.982	0.032	360135	10.0000	22.2	
	7 Ethylbenzene	27.570	27.538	0.032	336305	10.0000	22.5	
	8 m+p-Xylenes	27.872	27.839	0.033	699160	20.0000	45.2	
	9 o-Xylene	29.497	29.464	0.033	340983	10.0000	22.0	
$	10 p-Bromofluorobenzene	31.662	31.633	0.029	300940	20.0000	43.2	
	11 1,2,4-trimethylbenzene	32.727	32.700	0.027	277064	10.0000	22.9	
	12 1,3,5-trimethylbenzene	33.968	33.941	0.027	238592	10.0000	22.4	
	13 Naphthalene	42.763	42.734	0.029	91015	10.0000	26.5	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4053A.d
Date : 26-NOV-2013 21:38
Client ID:
Instrument: gc09.i
Sample Info: WG135145-5,WE40-1
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000485

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134903-1
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: 9GK4004A.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 23-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: NA
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	2.0	mg/Kgdrywt	1	2.5	2.5	1.8	2.0
p-Bromofluorobenzene		95.0	%					

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4004A.d
Report Date: 27-Nov-2013 15:06

Katahdin Analytical Services

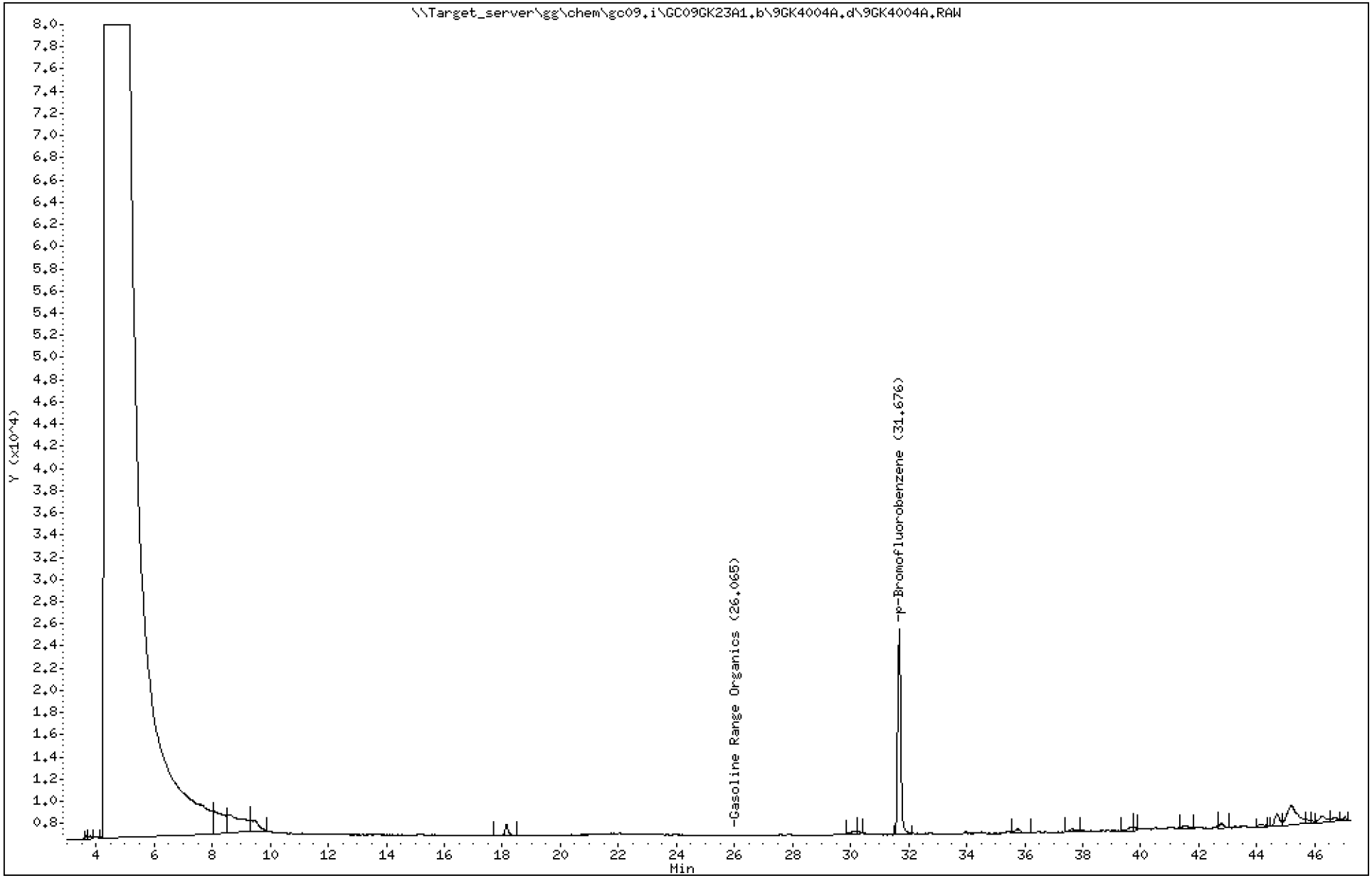
Data file : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4004A.d
Lab Smp Id: WG134903-1 Client Smp ID: WG134903-Blank
Inj Date : 23-NOV-2013 13:43
Operator : JLP Inst ID: gc09.i
Smp Info : WG134903-1,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-1
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK23A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:04 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.676	31.745	-0.069	132323	19.0067	4.75	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4004A.d
Date : 23-NOV-2013 13:43
Client ID: WG134903-Blank
Instrument: gc09.i
Sample Info: WG134903-1,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000489

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG134903-1RA
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: 9GK4022A.D

Sample Date:
Received Date:
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903

Analysis Date: 25-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: NA
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	J	2.3	mg/Kgdrywt	1	2.5	2.5	1.8	2.0
p-Bromofluorobenzene		87.2	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4022A.d
Report Date: 27-Nov-2013 15:21

Katahdin Analytical Services

Data file : \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4022A.d
Lab Smp Id: WG134903-1RA Client Smp ID: WG134903-Blank
Inj Date : 25-NOV-2013 10:08
Operator : JLP Inst ID: gc09.i
Smp Info : WG134903-1RA,SG9044
Misc Info : WG134903,WG127983-2,SG9044-3
Comment   : SW846 5030B
Method   : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK25A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:09 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
   Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

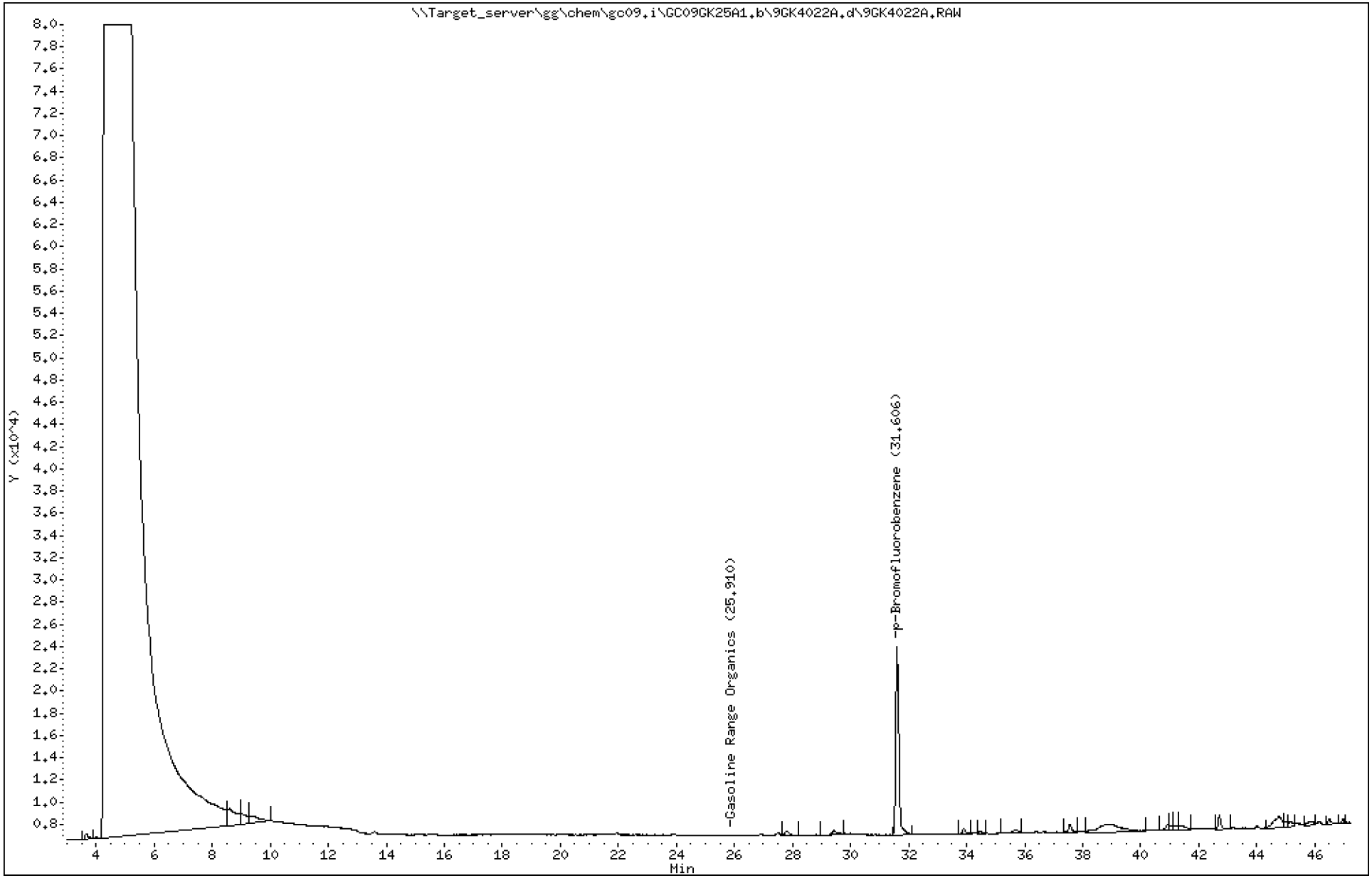
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	8.985	-42.834		116497	9.11043	2.28(a)	
$ 10 p-Bromofluorobenzene	31.606	31.633	-0.027	121312	17.4251	4.36	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\Target_server\gg\chem\gc09.i\GC09GK25A1.b\9GK4022A.d
Date : 25-NOV-2013 10:08
Client ID: WG134903-Blank
Instrument: gc09.i
Sample Info: WG134903-1RA,SG9044
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000492

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG135145-1
Client ID: Method Blank Sample
Project:
SDG: WE40-1
Lab File ID: 9GK4044A.D

Sample Date:
Received Date:
Extract Date: 26-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG135145

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: AQ
% Solids: NA
Report Date: 29-NOV-13

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Gasoline Range Organics	U	8.0	ug/l	1	10	10.	6.7	8.0
p-Bromofluorobenzene		94.0	%					

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4044A.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

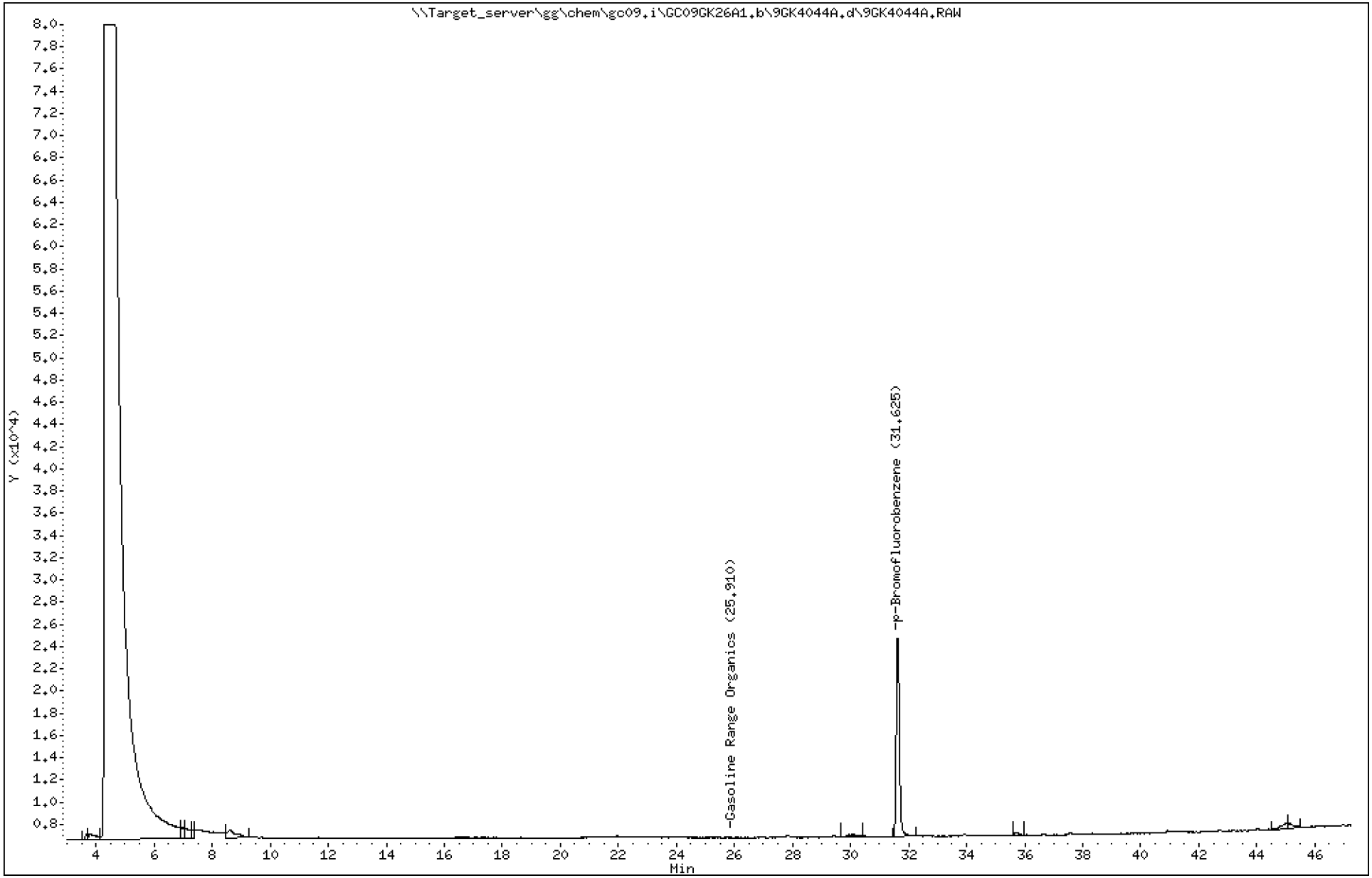
Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4044A.d
Lab Smp Id: WG135145-1 Client Smp ID: WG135145-Blank
Inj Date : 26-NOV-2013 11:24
Operator : JLP Inst ID: gc09.i
Smp Info : WG135145-1,WE40-1
Misc Info : WG135145,WG127983-2,SG9180-11
Comment : SW846 5030B
Method : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 10 p-Bromofluorobenzene	31.625	31.633	-0.008	130790	18.7865	18.8	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4044A.d
Date : 26-NOV-2013 11:24
Client ID: WG135145-Blank
Instrument: gc09.i
Sample Info: WG135145-1,WE40-1
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000495

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG134903-2
LCSD ID: WG134903-3
Project:
SDG: WE40-1
Report Date: 29-NOV-13
LCS File ID: 9GK4005A.D

Received Date:
Extract Date: 22-NOV-13
Extracted By: JLP
Extraction Method: SW846 5030B
Lab Prep Batch: WG134903
LCSD File ID: 9GK4006A.d

Analysis Date: 23-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Gasoline Range Organics	25.0	24.7	98.8	22.6	90.4	mg/Kgdrywt	9	50	67-137
p-Bromofluorobenzene			93.8		94.6				81-119

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4005A.d
Report Date: 27-Nov-2013 15:07

Katahdin Analytical Services

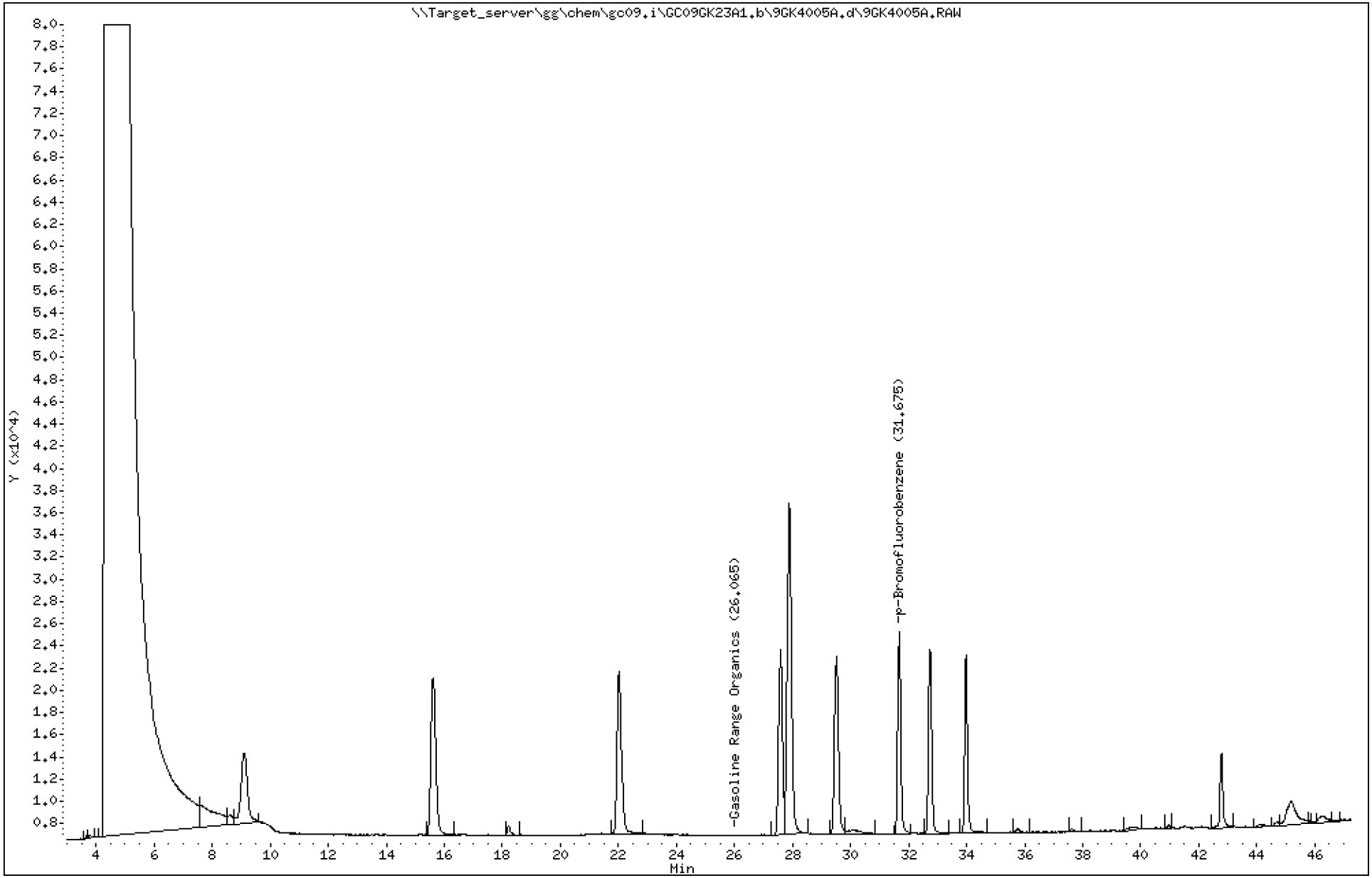
Data file : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4005A.d
Lab Smp Id: WG134903-2 Client Smp ID: WG134903-LCS
Inj Date : 23-NOV-2013 14:38
Operator : JLP Inst ID: gc09.i
Smp Info : WG134903-2,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-1
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK23A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:04 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	9.124-43.006			1262717	98.7484	24.7	
$ 10 p-Bromofluorobenzene	31.674	31.745	-0.071	130744	18.7799	4.69	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4005A.d
Date : 23-NOV-2013 14:38
Client ID: WG134903-LCS
Instrument: gc09.i
Sample Info: WG134903-2,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000498

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4006A.d
Report Date: 27-Nov-2013 15:07

Katahdin Analytical Services

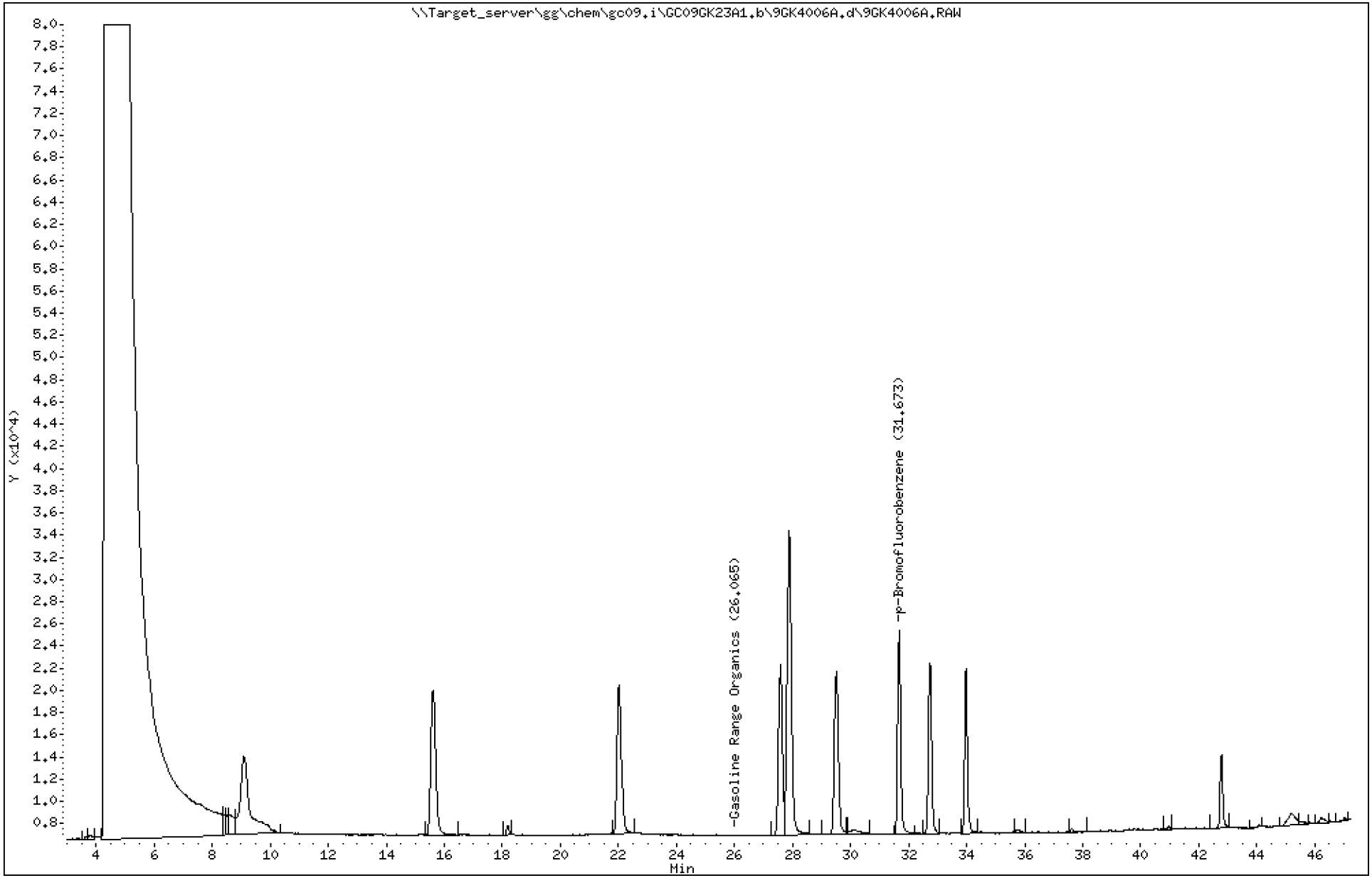
Data file : \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4006A.d
Lab Smp Id: WG134903-3 Client Smp ID: WG134903-LCSD
Inj Date : 23-NOV-2013 15:32
Operator : JLP Inst ID: gc09.i
Smp Info : WG134903-3,WE40-1
Misc Info : WG134903,WG127983-2,SG9044-1
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK23A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:04 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8015M-GRO.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula:
Amt * DF * (((Vt+((M/100)*Ws))*0.005)/(Ws*0.00002))*(100/(100-M))*(1/1000) *

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.01000	Volume of MeOH (L)
M	0.00000	Moisture (%)
Ws	0.01000	Weight of Sample (Kg)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(mg/Kgdrywt)	REVIEW CODE
S 6 Gasoline Range Organics	9.124-43.006			1153445	90.2030	22.6	
$ 10 p-Bromofluorobenzene	31.673	31.745	-0.072	131781	18.9289	4.73	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK23A1.b\9GK4006A.d
Date : 23-NOV-2013 15:32
Client ID: WG134903-LCSD
Instrument: gc09.i
Sample Info: WG134903-3,WE40-1
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000500

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG135145-2
LCSD ID: WG135145-3
Project:
SDG: WE40-1
Report Date: 29-NOV-13
LCS File ID: 9GK4045A.D

Received Date:
Extract Date: 26-NOV-13
Extracted By: JLP
Extraction Method: SW846 M8015B
Lab Prep Batch: WG135145
LCSD File ID: 9GK4046A.d

Analysis Date: 26-NOV-13
Analyst: JLP
Analysis Method: SW846 M8015B
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Gasoline Range Organics	100.	88.6	88.6	101.	101.	ug/l	13	30	73-126
p-Bromofluorobenzene			83.0		92.0				79-121

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Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4045A.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

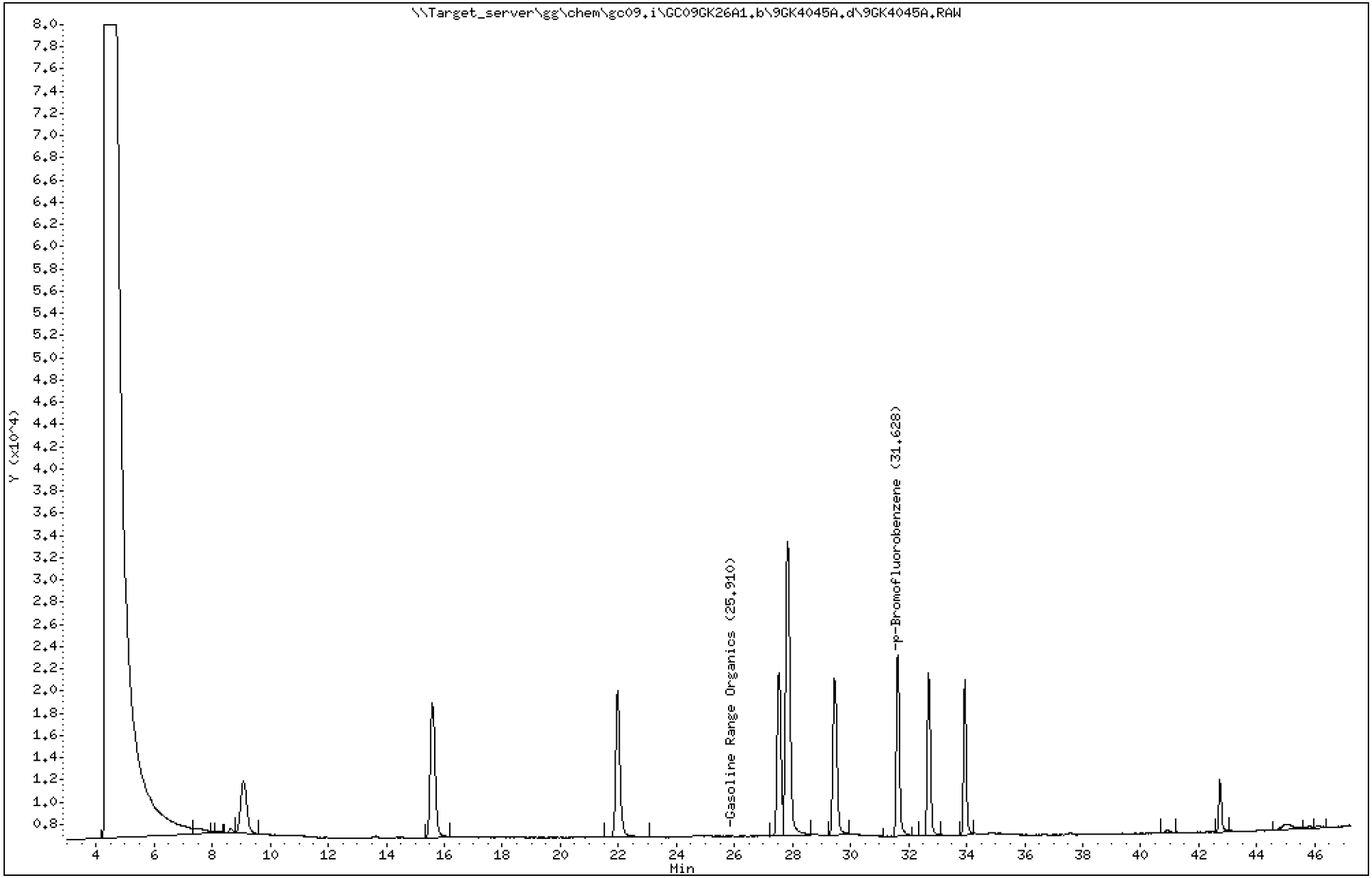
Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4045A.d
Lab Smp Id: WG135145-2 Client Smp ID: WG135145-LCS
Inj Date : 26-NOV-2013 14:25
Operator : JLP Inst ID: gc09.i
Smp Info : WG135145-2,WE40-1
Misc Info : WG135145,WG127983-2,SG9180-11
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK26A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: MEDEP4-2-17.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	
Compounds		RT	EXP RT	DLT RT	RESPONSE			REVIEW CODE
S	6 Gasoline Range Organics	8.985-42.834			1133635	88.6538	88.6	
$	10 p-Bromofluorobenzene	31.627	31.633	-0.006	115474	16.5865	16.6	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4045A.d
Date : 26-NOV-2013 14:25
Client ID: WG135145-LCS
Instrument: gc09.i
Sample Info: WG135145-2,WE40-1
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000503

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4046A.d
Report Date: 27-Nov-2013 15:27

Katahdin Analytical Services

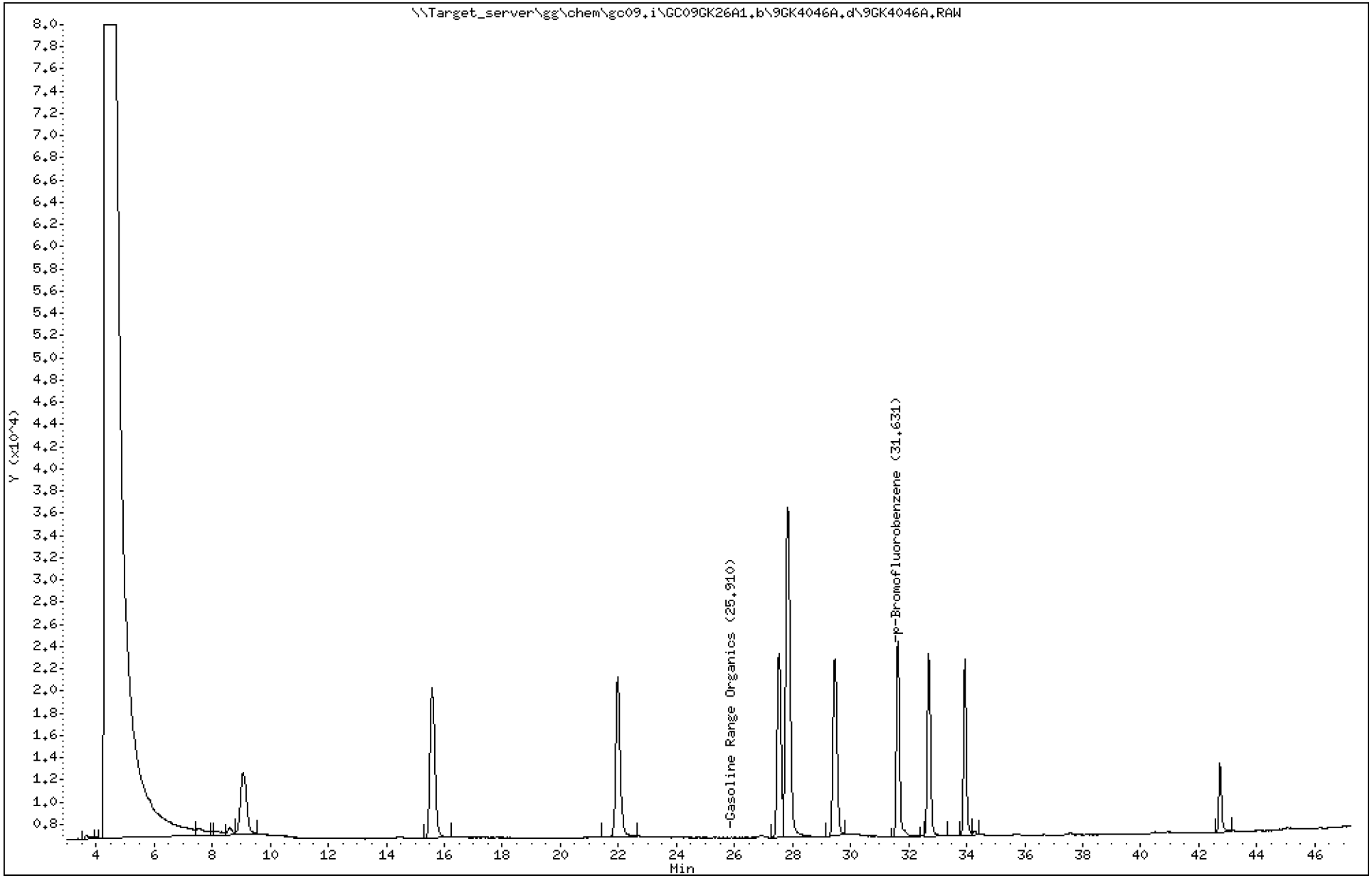
Data file : \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4046A.d
Lab Smp Id: WG135145-3 Client Smp ID: WG135145-LCSD
Inj Date : 26-NOV-2013 15:19
Operator : JLP Inst ID: gc09.i
Smp Info : WG135145-3,WE40-1
Misc Info : WG135145,WG127983-2,SG9180-11
Comment : SW846 5030B
Method : \\TARGET_SERVER\GG\chem\gc09.i\GC09GK26A1.B\GROB017A.m
Meth Date : 27-Nov-2013 15:24 jprescott Quant Type: ESTD
Cal Date : 26-JUL-2013 17:56 Cal File: 9GG2130.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: MEDEP4-2-17.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Final Volume (L)
Vo	0.00500	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
S 6 Gasoline Range Organics	8.985-42.834			1292118	101.048	101	
$ 10 p-Bromofluorobenzene	31.630	31.633	-0.003	128158	18.4085	18.4	

Data File: \\Target_server\gg\chem\gc09.i\GC09GK26A1.b\9GK4046A.d
Date : 26-NOV-2013 15:19
Client ID: WG135145-LCSD
Instrument: gc09.i
Sample Info: WG135145-3,WE40-1
Purge Volume: 0.0
Operator: JLP
Column phase: RTX-624
Column diameter: 0.53



Katahdin Analytical Services 0000505

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc.
GC Laboratory Instrument Runlog

Instrument: GC09

Method (Circle): MADEP-VPH-98-1 MEDEP 4.2.17 SW846 8015(M)

Δ WG127984-1	7
-2	70
-3	175
-4	350
-5	700
-6	1400
-7	10570

Date	Init.	Sample Name	Amt. Purged	SP. #	Result File	Dil.	Y/N	Method	pH	Comments (A) = GRDB016A
7-23-13	EKL	N-decane	5mL	1	9GG2104	1	Y	GRDB016A/B	-	4uL m0778
		CV 70/100		2	105(A)				-	
		WG127426-1		3	106(A)		Y		-	
		-2		4	107(A)				-	
		-3		5	108(A)				-	
		n-pentane		6	109				-	5uL GCV3078
		SG4973-33 A	5mL*	7	110				-	*1mL #16561→100mL DI
		-33B	250uL*	8	111	20			-	
		SG5017-1 B	5mL	9	112	1	Y		<2	
		-5 B		10	113					
		-9 A		11	114					
		-13 E		12	115					
		-17 H		13	116					
		CV 175		14	117				-	
		SG5017-21 A		15	118				<2	
7-24-13		WG127426-4 I		16	119					SG5017-13MS
		-5 R		1	120					-13MSD
		CV 70		2	121				-	
7-26-13	EKL	ICAL 10	5mL	1	122	1	N	GRDB017A/B	-	int MIBE (A)=CS-C10A GECB017B
		100		2	123(A)		Y		-	2uL #4 WG127983-2
		250		3	124(A)				-	5uL #4 -3
		500		4	125(A)				-	10uL #4 -4
		1000		5	126(A)				-	2uL #8 -5
		2000		6	127(A)				-	4uL #8 -6
		water		6	128		N		-	
		ICAL 10		7	129				-	noph
		ICAL 10		8	130(A)		Y		-	*2uL #7 WG127983-1
		ICV 100		9	131(A)				-	2uL #5+6 -7

	Std. Name	Conc.	Std. Code	Std. Code
1	VPH Cal mix	50 ug/ml	GCV	GCV
2	VPH Surr. mix	100 ug/ml	GCV	GCV
3	VPH LCS mix	100 ug/ml	GCV	GCV
4	GRO Cal mix	250 ug/mL Total	GCV3081	GCV
5	GRO Surr. Mix	50 ug/mL	GCV3080	GCV
6	GRO LCS mix	250 ug/mL Total	GCV3082	GCV
7	GRO cal low	25 ug/mL		*
8	GRO cal high	2500 ug/mL		

VPH CC = 5uL Std. 1
VPH LCS = 5uL Std. 3
VPH Samples = 5uL Std. 2

GRO CC = 2uL Std. 4
GRO LCS = 2uL Std. 5 and 6
GRO Samples = 2uL Std. 5

Katahdin Analytical Services, Inc.
GC Laboratory Instrument Runlog

Instrument: GC09

Method (Circle): MADEP-VPH-98-1 MEDEP 4.2.17 (SW846 8015(M))

Date	Init.	Sample Name	Amt. Purged	SP. #	Result File	Dil.	Y/N	Method	pH	Comments
11-22-13	JAP	CV 175	5mL	5	96K2198	1	Y	GROB017B	—	WG134804-8 WG134886-11 (a)
↓	↓	SG9056-2	20uL	6	199	↓	↓	↓	—	
		↓ -3	↓	7	200				—	
		SG9066-1		8	201				—	
		↓ -2		9	202				—	
↓		↓ -3		10	203				—	
11-23-13		↓ -4		11	204				—	
↓		↓ -6		12	205				—	
		WG134886-8		13	206				—	
		↓ -9	↓	14	207				—	
		Water	5mL	15	208				—	
↓	↓	CV 70	↓	16	↓ 209	↓	↓	↓	—	WG134886-12
11-23-13	JAP	CV 100/70	5mL	1	96K4001	1	Y	GROB017 A/B/C	—	WG134904-6 WG134886-13 (b) WG134903-4 (a) 5uL Method C (a) #1
↓	↓	VPH STD	↓	2	02	↓	Y	↓	—	
		WG134886-1RA	20uL	3	03			GROB017B	—	
		WG134904-1	↓	4	04			GROB017 A/C	—	WG134903-1 (a)
		↓ -2		5	05			↓	—	↓ -2 ↓
		↓ -3	↓	6	06			↓	—	↓ -3 ↓
		WG134886-4		7	07			GROB017B	—	Spiked
		↓ -5		8	08			↓	—	
		↓ -6		9	09			↓	—	
		↓ -7	↓	10	10		↓	↓	—	
		Water	5mL	#3	11		N	GROB017C	—	
		↓	↓	12	12		N	↓	—	
		SG8908-8	20uL	13	13		Y		—	
		↓ -1	↓	14	14		↓		—	
↓		CV 250/175	5mL	15	15	↓	↓	A+B	—	NT WG134886-11(b) WG134904-7 WG134903-5(a)
11-24-13		SG9002-1	20uL	16	16	N	↓	↓	—	(R) C.O
↓	↓	SG8999-1	↓	15	17	N	↓	↓	—	(R) C.O

	Std. Name	Conc.	Std. Code	Std. Code
1	VPH Cal mix	50 ug/ml	GCV 3131	GCV
2	VPH Surr. mix	100 ug/ml	GCV	GCV
3	VPH LCS mix	100 ug/ml	GCV	GCV
4	GRO Cal mix	250 ug/mL Total	GCV 3127	GCV
5	GRO Surr. Mix	50 ug/mL	GCV 3128	GCV
6	GRO LCS mix	250 ug/mL Total	GCV	GCV
7				
8				

VPH CC = 5uL Std. 1
VPH LCS = 5uL Std. 3
VPH Samples = 5uL Std. 2

GRO CC = 2uL Std. 4
GRO LCS = 2uL Std. 5 and 6
GRO Samples = 2uL Std. 5

Katahdin Analytical Services, Inc. Instrument: GC09

GC Laboratory Instrument Runlog

Method (Circle): MADEP-VPH-98-1 MEDEP 4.2.17 SW846 8015(M)

Date	Init.	Sample Name	Amt. Purged	SP. #	Result File	Dil.	Y/N	Method	pH	Comments
11-24-13	JLP	SG8999-23	20ul	16	9GK40 18	1	Y	GRO8017C	—	
↓	↓	CV 100/70	5mL	1	↓ 19	1	Y	↓	—	N↑ WG134904-8
11-25-13	JLP	CV 100	5mL	1	20		Y	GRO8017C/A	—	WG134901-9 WG134903-6(a)
		VPH STD	↓	2	21			↓	~	SWL #1
		WG134904-1RA	20ul	3	22			↓	~	↑ hit WG134903-1RA(a)
		SG9002-1RA		4	23			GRO8017C	—	
		SG8999-1RA		5	24		↓		—	
		-4		1	25		Y		—	
		-27		2	26				—	
		↓ -28		3	27				—	
		WG134904-4		4	28				—	
		↓ -5		5	29			↓	—	
		SG9044-1		6	30			GRO8017A	—	
		↓ -2	↓	7	31			↓	—	
		CV 250	5mL	8	32			GRO8017A+C	—	WG134904-10 WG134903-7(a)
		SG9044-3	20ul	9	33			GRO8017A	—	(P) to confirm
		-4		10	34				—	
		-5		11	35				~	SGL matrix
11-26-13		-6		12	36				—	
		-7		13	37				—	
		-8		14	38				—	
		↓ -9	↓	15	39				—	SGL matrix
↓	↓	CV 100	5mL	16	↓ 40	↓	↓	↓	—	N↑ WG134903-8
11-26-13	JLP	CV 100	5mL	1	41	1	Y	GRO8017C+A	—	WG135144-6 WG135145-4(a)
		VPH STD	↓	2	42		Y	GRO8017C	—	SWL #1
		WG134903-1RA	20ul	3	43		Y	↓ A	—	
		WG135144-1	5mL	4	44		Y	GRO8017C+A	—	WG135145-1
		-2		1	45		Y		—	↓ -2
↓	↓	↓ -3	↓	2	↓ 46	↓	↓	↓	—	↓ -3

	Std. Name	Conc.	Std. Code	Std. Code
1	VPH Cal mix	50 ug/ml	GCV 3131	GCV
2	VPH Surr. mix	100 ug/ml	GCV	GCV
3	VPH LCS mix	100 ug/ml	GCV	GCV
4	GRO Cal mix	250 ug/mL Total	GCV 3127	GCV
5	GRO Surr. Mix	50 ug/mL	GCV 3128	GCV
6	GRO LCS mix	250 ug/mL Total	GCV 3129	GCV
7				
8				

VPH CC = 5uL Std. 1
VPH LCS = 5uL Std. 3
VPH Samples = 5uL Std. 2

GRO CC = 2uL Std. 4
GRO LCS = 2uL Std. 5 and 6
GRO Samples = 2uL Std. 5

Katahdin Analytical Services, Inc.
GC Laboratory Instrument Runlog

Instrument: GC09

Method (Circle): MADEP-VPH-98-1 (MEDEP 4.2.17) (SW846 8015(M))

Date	Init.	Sample Name	Amt. Purged	SP. #	Result File	Dil.	Y/N	Method	pH	Comments
11-26-13	JLR	SG9044 3PA	20ul	3	9GK4047	1	N	GROB017A	—	confirms
↓	↓	SG9180-11 A	5mL	4	48	↓	Y	↓	<2	
		SG9057-1		5	49		↓		↓	
		↓ -2 ↓		6	50					
		↓ -3 E		7	51					
		SG9002-12 A		8	52		Y	GROB017C	↓	RB
		CV 250		9	53		Y	GROB017A+C	—	WG135144-7 WG135145-5@
		SG8999-12 A		10	54		↓	GROB017C	<2	RB
↓		↓ -13		11	55			↓	↓	TB
11-27-13		SG9178-24		12	56					RB
↓		↓ -25		13	57					TB
		SG9179-11		14	58					RB
		↓ -13 ↓		15	59		↓		↓	TB
↓	↓	CV 100	↓	16	↓ 60	↓	Y	↓	—	MTBE WG135145-6

	Std. Name	Conc.	Std. Code	Std. Code
1	VPH Cal mix	50 ug/ml	GCV	GCV
2	VPH Surr. mix	100 ug/ml	GCV	GCV
3	VPH LCS mix	100 ug/ml	GCV	GCV
4	GRO Cal mix	250 ug/mL Total	GCV 3127	GCV
5	GRO Surr. Mix	50 ug/mL	GCV 3188	GCV
6	GRO LCS mix	250 ug/mL Total	GCV	GCV
7				
8				

VPH CC = 5uL Std. 1
VPH LCS = 5uL Std. 3
VPH Samples = 5uL Std. 2

GRO CC = 2uL Std. 4
GRO LCS = 2uL Std. 5 and 6
GRO Samples = 2uL Std. 5

KATAHDIN ANALYTICAL SERVICES
GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume (mL) Methanol ☒ or DI Water ☐	Spike ID and Volume (µL)	Surrogate ID and Volume (µL)	Method	Comments
11-22-13	JVP	SG90066-4A	7.57	10	NA	NA	8015 8021	
↓	↓	↓ -6E	10.00	↓	↓	↓	↓	TB
11-22-13	JVP	WG134903-1 WG134904-1	10.03	10	NA	NA		
		↓ -1 -2	9.98		12.5ul AMP3656 @2000 ug/mL			
		↓ -3 -3	10.01		↓			
		WG134904-4B	9.64					SG 8999-4MS
		↓ -5c	9.67		↓			↓ -4MSD
		SG 8908-1C	12.05		NA			
		↓ -8A	10.00		↓			TB
		SG 8999-1A	10.00					TB
		-4A	5.39					
		-23A	12.55					
		-27A	9.32					
		↓ -28A	12.46					
↓	↓	SG 9002-1A	8.79	↓	↓	↓	↓	

KATAHDIN ANALYTICAL SERVICES
GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume (mL) Methanol ☒ or DI Water ☐	Spike ID and Volume (µL)	Surrogate ID and Volume (µL)	Method	Comments
11-22-13	JLP	SG9044-1c	12.10	10	NA	NA	8015-GRO	
		-2	12.14					
		-3	12.81					
		-4	13.61					
		-5	13.16					
		-6	11.86					
		-7	12.25					
		-8	12.72					
		-9	13.24					
							JLP 11223	

GC-012 – Revision 1 – 08/18/10

Katahdin Analytical Services 0000576

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
11-8-13	DM	76600	36.90			DI / MEOH / NaHSO4	5 / 10		
		76601	37.00			DI / MEOH / NaHSO4	5 / 10		
		76602	36.84			DI / MEOH / NaHSO4	5 / 10		
		76603	36.84			DI / MEOH / NaHSO4	5 / 10		
		76604	37.02			DI / MEOH / NaHSO4	5 / 10		
		76605	36.97	50.13	13.16	DI / MEOH / NaHSO4	5 / 10	SG9044-5C	
		76606	36.81			DI / MEOH / NaHSO4	5 / 10		
		76607	36.75			DI / MEOH / NaHSO4	5 / 10		
		76608	36.71	48.85	12.14	DI / MEOH / NaHSO4	5 / 10	SG9044-2C	
		76609	36.54	48.64	12.10	DI / MEOH / NaHSO4	5 / 10	SG9044-1 C	
		76610	36.72			DI / MEOH / NaHSO4	5 / 10		
		76611	36.90	50.14	13.24	DI / MEOH / NaHSO4	5 / 10	SG9044-9C	
		76612	36.93	49.65	12.72	DI / MEOH / NaHSO4	5 / 10	SG9044-8C	
		76613	36.86	49.11	12.25	DI / MEOH / NaHSO4	5 / 10	↓ -7 C	
		76614	36.91	48.77	11.86	DI / MEOH / NaHSO4	5 / 10	↓ -6 C	
		76615	36.94	50.55	13.61	DI / MEOH / NaHSO4	5 / 10	SG9044-4C	
		76616	36.85			DI / MEOH / NaHSO4	5 / 10		
		76617	36.83	49.64	12.81	DI / MEOH / NaHSO4	5 / 10	SG9044-3C	
		76618	36.90			DI / MEOH / NaHSO4	5 / 10		
↓	↓	76619	36.61			DI / MEOH / NaHSO4	5 / 10		

40 mL Vial Lot #: 100713-3AVF
MeOH Lot #: DI421
NaSO4 Lot #:

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

Katahdin Analytical Services 0000513

METALS DATA

Sample Data Section

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	Spiked sample recovery not within control limits.
*	Duplicate sample analysis not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a greater rate for false negatives, i.e. greater than 1%, than those results reported as "U" PQL/LOQ or "U" LOD.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WE40-1 **SOW No.** SW846

Client Field ID	Lab Sample ID
IDW-GW-112113	SG9180-011

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Edward A. Morgan Name: Edward A. Morgan

Date: December 3, 2013 Title: Senior Analyst

Katahdin Analytical Services 0000517

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** IDW-GW-112113

Matrix: WATER **SDG Name:** WE40-1

Percent Solids: 0.00 **Lab Sample ID:** SG9180-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	5.0	U		P	1	8.0	1.43	5.0
7440-39-3	BARIUM, TOTAL	36.2			P	1	5.0	0.23	3.0
7440-43-9	CADMIUM, TOTAL	3.0	U		P	1	5.0	0.05	3.0
7440-47-3	CHROMIUM, TOTAL	0.52	J		P	1	10	0.36	4.0
7439-92-1	LEAD, TOTAL	4.0	U		P	1	5.0	1.07	4.0
7439-97-6	MERCURY, TOTAL	0.10	U		CV	1	0.20	0.01	0.10
7782-49-2	SELENIUM, TOTAL	7.0	U		P	1	10	2.36	7.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	10	0.27	4.0

Comments:

QC Summary Section

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: ICV

File: HGK25A Nov 25, 2013 14:02

Analyte	True	Found	%R (1)
MERCURY	6.0	6.42	107.0

SAMPLE: CCV

File: HGK25A Nov 25, 2013 14:08

Analyte	True	Found	%R (1)
MERCURY	5.0	5.07	101.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCV

File: HGK25A Nov 25, 2013 14:33

Analyte	True	Found	%R (1)
MERCURY	5.0	5.70	114.0

SAMPLE: CCV

File: HGK25A Nov 25, 2013 15:00

Analyte	True	Found	%R (1)
MERCURY	5.0	4.88	97.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCV

File: HGK25A Nov 25, 2013 15:25

Analyte	True	Found	%R (1)
MERCURY	5.0	5.79	115.8

SAMPLE: CCV

File: HGK25A Nov 25, 2013 15:51

Analyte	True	Found	%R (1)
MERCURY	5.0	5.78	115.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCV

File: HGK25A Nov 25, 2013 16:17

Analyte	True	Found	%R (1)
MERCURY	5.0	5.19	103.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: ICV

File: IGL02A Dec 02, 2013 15:55

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10330.00	103.3
ARSENIC	400.0	396.10	99.0
BARIUM	400.0	392.10	98.0
CADMIUM	400.0	392.20	98.0
CALCIUM	10000.0	10350.00	103.5
CHROMIUM	400.0	391.20	97.8
IRON	10000.0	10400.00	104.0
LEAD	400.0	404.90	101.2
MAGNESIUM	10000.0	10420.00	104.2
SELENIUM	400.0	396.70	99.2
SILVER	400.0	389.30	97.3

SAMPLE: CCV

File: IGL02A Dec 02, 2013 16:32

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12460.00	99.7
ARSENIC	500.0	489.80	98.0
BARIUM	500.0	488.00	97.6
CADMIUM	500.0	493.60	98.7
CALCIUM	12500.0	12490.00	99.9
CHROMIUM	500.0	493.20	98.6
IRON	12500.0	12490.00	99.9
LEAD	500.0	500.00	100.0
MAGNESIUM	12500.0	12790.00	102.3
SELENIUM	500.0	488.70	97.7
SILVER	500.0	492.50	98.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCV

File: IGL02A Dec 02, 2013 17:28

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12410.00	99.3
ARSENIC	500.0	483.90	96.8
BARIUM	500.0	485.80	97.2
CADMIUM	500.0	493.50	98.7
CALCIUM	12500.0	12450.00	99.6
CHROMIUM	500.0	495.80	99.2
IRON	12500.0	12400.00	99.2
LEAD	500.0	500.80	100.2
MAGNESIUM	12500.0	12770.00	102.2
SELENIUM	500.0	476.40	95.3
SILVER	500.0	498.50	99.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: PQL

File: HGK25A Nov 25, 2013 14:06

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.21	105.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: PQL

File: IGL02A Dec 02, 2013 16:04

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	312.00	104.0
ARSENIC	8.0	6.62	82.8
BARIUM	5.0	4.94	98.8
CADMIUM	5.0	4.97	99.4
CALCIUM	100.0	103.60	103.6
CHROMIUM	10.0	9.64	96.4
IRON	100.0	102.70	102.7
LEAD	5.0	5.85	117.0
MAGNESIUM	100.0	106.70	106.7
SELENIUM	10.0	9.90	99.0
SILVER	10.0	9.90	99.0

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: ICB

File: HGK25A Nov 25, 2013 14:04

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HGK25A Nov 25, 2013 14:10

Analyte	Result	C
MERCURY	-0.030	U

SAMPLE: CCB

File: HGK25A Nov 25, 2013 14:36

Analyte	Result	C
MERCURY	0.030	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCB

File: HGK25A Nov 25, 2013 15:02

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HGK25A Nov 25, 2013 15:27

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HGK25A Nov 25, 2013 15:53

Analyte	Result	C
MERCURY	0.030	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: CCB

File: HGK25A Nov 25, 2013 16:19

Analyte	Result	C
MERCURY	0.030	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: ICB

File: IGL02A Dec 02, 2013 15:59

Analyte	Result	C
ALUMINUM	16.800	U
ARSENIC	2.314	J
BARIUM	0.310	U
CADMIUM	0.070	U
CALCIUM	8.730	U
CHROMIUM	0.410	U
IRON	3.950	U
LEAD	1.040	U
MAGNESIUM	7.720	U
SELENIUM	5.093	J
SILVER	0.540	U

SAMPLE: CCB

File: IGL02A Dec 02, 2013 16:37

Analyte	Result	C
ALUMINUM	16.800	U
ARSENIC	2.404	J
BARIUM	0.310	U
CADMIUM	0.070	U
CALCIUM	8.730	U
CHROMIUM	0.410	U
IRON	3.950	U
LEAD	1.040	U
MAGNESIUM	7.720	U
SELENIUM	3.226	J
SILVER	0.540	U

SAMPLE: CCB

File: IGL02A Dec 02, 2013 17:32

Analyte	Result	C
ALUMINUM	16.800	U
ARSENIC	1.540	U
BARIUM	0.310	U
CADMIUM	0.070	U
CALCIUM	8.730	U
CHROMIUM	0.410	U
IRON	3.950	U
LEAD	1.040	U
MAGNESIUM	7.720	U
SELENIUM	4.413	J
SILVER	0.540	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWGK25HGW2

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK25HGW2

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.010	J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWGK26ICW2

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK26ICW2

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	5.0	U
BARIUM	3.0	U
CADMIUM	3.0	U
CHROMIUM	4.0	U
LEAD	4.0	U
SELENIUM	7.0	U
SILVER	4.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Concentration Units: ug/L

SAMPLE: ICSA

File: IGL02A Dec 02, 2013 16:23

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	509900	102.0
ARSENIC	0	2	
BARIUM	0	0	
CADMIUM	0	1	
CALCIUM	500000	478100	95.6
CHROMIUM	0	-1	
IRON	200000	187100	93.5
LEAD	0	-1	
MAGNESIUM	500000	452800	90.6
SELENIUM	0	3	
SILVER	0	2	

SAMPLE: ICSAB

File: IGL02A Dec 02, 2013 16:28

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	490700	98.1
ARSENIC	100	98	98.0
BARIUM	500	482	96.4
CADMIUM	1000	893	89.3
CALCIUM	500000	458900	91.8
CHROMIUM	500	452	90.4
IRON	200000	183700	91.8
LEAD	50	42	84.0
MAGNESIUM	500000	443900	88.8
SELENIUM	50	44	88.0
SILVER	200	203	101.5

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LC2WGK25HGW2

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK25HGW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	4.75	95.0	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWGK25HGW2

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK25HGW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	5.58	111.6	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWGK26ICW2

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK26ICW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100.00	100.30	100.3	80	120
BARIUM	2000.00	1979.00	99.0	80	120
CADMIUM	250.00	257.50	103.0	80	120
CHROMIUM	200.00	198.10	99.0	80	120
LEAD	100.00	101.80	101.8	80	120
SELENIUM	100.00	101.00	101.0	80	120
SILVER	50.00	49.59	99.2	80	120

7D

LABORATORY CONTROL SAMPLE DUPLICATES

Lab Name: Katahdin Analytical Services

Matrix: WATER **SDG Name:** WE40-1

QC Batch ID: GK25HGW2 **Lab Sample ID:** LCSWGK25HGW2

Concentration Units: ug/L

Analyte	Control Limit (%)	LCS Result	LCS Dup. Result	RPD(%)	Q
MERCURY	20.0	5.58	4.75	16.0	

FORM VIID - IN

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/30/2013

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.03	CV

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 5/21/2012

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	16.80	P
ARSENIC	8.0	1.54	P
BARIUM	5.0	0.31	P
CADMIUM	5.0	0.07	P
CALCIUM	100	8.73	P
CHROMIUM	10	0.41	P
IRON	100	3.95	P
LEAD	5.0	1.04	P
MAGNESIUM	100	7.72	P
SELENIUM	10	2.60	P
SILVER	10	0.54	P

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / SW846 7470A

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ARSENIC	5.00	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	3.00	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	3.00	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	4.00	ug/L	P	SW846 3010A / SW846 6010C
LEAD	4.00	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	7.00	ug/L	P	SW846 3010A / SW846 6010C
SILVER	4.00	ug/L	P	SW846 3010A / SW846 6010C

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.01	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ARSENIC	1.43	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	0.23	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	0.05	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	0.36	ug/L	P	SW846 3010A / SW846 6010C
LEAD	1.07	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	2.36	ug/L	P	SW846 3010A / SW846 6010C
SILVER	0.27	ug/L	P	SW846 3010A / SW846 6010C

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Instrument Name: THERMO ICAP 6500 **Instrument ID:** I **Date:** 8/21/2013

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Cr	Co	Cu	Mn	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0443000	0.0	0.0	0.0
ANTIMONY	206.83	0.0000170	0.0	0.0000260	0.0	-0.0001490	0.0119000	0.0	0.0	0.0	-0.0013800	-0.0009470	0.0	-0.0006030
ARSENIC	189.04	-0.0000008	0.0	-0.0001510	0.0	0.0	0.0000970	0.0	0.0	0.0	0.0017300	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006860	0.0003880
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0382000	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000610	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0000800	0.0000910	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0	-0.0011000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	0.0000018	0.0	0.0	0.0	0.0	0.0	0.0001110	0.0	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0000130	0.0	0.0	-0.0001800	0.0	0.0	0.0	0.0	0.0002140	0.0023400	0.0
COPPER	327.40	0.0000110	0.0	-0.0000055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0027300	0.0003110
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	220.35	-0.0001230	0.0	0.0000180	0.0	0.0	-0.0005800	0.0000540	-0.0001440	0.0	-0.0012500	0.0002080	0.0000970	0.0
LITHIUM	670.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	202.58	0.0	0.0	0.0000870	0.0	0.0	0.0	0.2003000	0.0	0.0	0.0277000	0.0	0.0007070	0.0
MANGANESE	257.61	0.0000010	0.0	0.0000150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001920
NICKEL	231.60	0.0	0.0	-0.0000460	0.0	0.0	0.0	-0.0001380	0.0	0.0	0.0011900	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	-0.0000100	0.0	-0.0000078	0.0	-0.0001750	0.0	0.0001290	0.0	0.0007680	0.0	0.0	0.0	-0.0002070
SILICON	251.61	0.0	0.0	-0.0001700	0.0	0.0	0.0	0.0	0.0	0.0	0.0116000	0.0	0.0009940	0.0
SILVER	328.07	0.0	0.0	-0.0002090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0003990	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	421.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000066	0.0	0.0000078	0.0	0.0	0.0	0.0024400	-0.0001610	-0.0017000	-0.0000380	0.0	-0.0011200	-0.0011500
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0	0.0	0.0004770	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000180	0.0	0.0	-0.0048000	0.0	0.0	-0.0025100	-0.0084500	0.0	0.0007110	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0011400	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 8/21/2013

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	1000000	P
ARSENIC	45.00	20000	P
BARIUM	5.00	20000	P
CADMIUM	45.00	20000	P
CALCIUM	5.00	1000000	P
CHROMIUM	10.00	20000	P
IRON	5.00	500000	P
LEAD	45.00	20000	P
MAGNESIUM	45.00	500000	P
SELENIUM	45.00	20000	P
SILVER	10.00	2000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** GK25HGW2

Matrix: WATER **SDG Name:** WE40-1

Method: CV **Prep Date:** 11/25/2013

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LC2WGK25HGW2	LC2WGK25HGW2	0.025	0.025	
LCSWGK25HGW2	LCSWGK25HGW2	0.025	0.025	
PBWGK25HGW2	PBWGK25HGW2	0.025	0.025	
IDW-GW-112113	SG9180-011	0.025	0.025	G

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** GK26ICW2

Matrix: WATER **SDG Name:** WE40-1

Method: P **Prep Date:** 11/26/2013

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWGK26ICW2	LCSWGK26ICW2	0.05	0.05	
PBWGK26ICW2	PBWGK26ICW2	0.05	0.05	
IDW-GW-112113	SG9180-011	0.05	0.05	G

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Instrument ID: CETAC M6100 **File Name:** HGK25A

Date: 11/25/2013 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:49	Hg
Standard #1 (0.2 p		1	13:51	Hg
Standard #2 (0.5 p		1	13:53	Hg
Standard #3 (1.0 p		1	13:55	Hg
Standard #4 (5.0 p		1	13:57	Hg
Standard #5 (10.0		1	14:00	Hg
ICV		1	14:02	HG
ICB		1	14:04	HG
PQL		1	14:06	HG
CCV		1	14:08	HG
CCB		1	14:10	HG
ZZZZZZ		1	14:12	
ZZZZZZ		1	14:14	
ZZZZZZ		1	14:16	
ZZZZZZ		1	14:19	
ZZZZZZ		1	14:21	
ZZZZZZ		1	14:23	
ZZZZZZ		1	14:25	
ZZZZZZ		1	14:27	
ZZZZZZ		1	14:29	
CCV		1	14:33	HG
CCB		1	14:36	HG
ZZZZZZ		1	14:38	
ZZZZZZ		1	14:40	
ZZZZZZ		1	14:42	
ZZZZZZ		1	14:45	
ZZZZZZ		1	14:47	
ZZZZZZ		1	14:49	
ZZZZZZ		5	14:51	
ZZZZZZ		1	14:53	
ZZZZZZ		1	14:55	
ZZZZZZ		1	14:57	
CCV		1	15:00	HG
CCB		1	15:02	HG
ZZZZZZ		1	15:04	
ZZZZZZ		1	15:06	
LCSWGK25HGW2		1	15:08	HG
PBWGK25HGW2		1	15:10	HG
LC2WGK25HGW2		1	15:12	HG
ZZZZZZ		1	15:14	
ZZZZZZ		1	15:17	
ZZZZZZ		1	15:19	
ZZZZZZ		1	15:21	
ZZZZZZ		1	15:23	
CCV		1	15:25	HG
CCB		1	15:27	HG
ZZZZZZ		1	15:29	
ZZZZZZ		1	15:32	
ZZZZZZ		5	15:34	
ZZZZZZ		1	15:36	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Instrument ID: CETAC M6100 **File Name:** HGK25A

Date: 11/25/2013 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	15:38	
ZZZZZZ		1	15:40	
ZZZZZZ		1	15:42	
ZZZZZZ		1	15:44	
ZZZZZZ		1	15:47	
ZZZZZZ		1	15:49	
CCV		1	15:51	HG
CCB		1	15:53	HG
ZZZZZZ		1	15:55	
ZZZZZZ		1	15:57	
ZZZZZZ		1	16:00	
SG9180-011	IDW-GW-112113	1	16:02	HG
ZZZZZZ		1	16:04	
ZZZZZZ		1	16:06	
ZZZZZZ		1	16:09	
ZZZZZZ		5	16:11	
ZZZZZZ		1	16:13	
ZZZZZZ		1	16:15	
CCV		1	16:17	HG
CCB		1	16:19	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE40-1

Instrument ID: THERMO ICAP 6500 **File Name:** IGL02A

Date: 12/2/2013 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements												
Blank		1	15:46	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
Std 1		1	15:50	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ICV		1	15:55	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ICB		1	15:59	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
PQL		1	16:04	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ZZZZZZ		1	16:08													
ZZZZZZ		1	16:13													
ICSA		1	16:23	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
ICSAB		1	16:28	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCV		1	16:32	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	16:37	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
LCSWGK26ICW2		1	16:41		AS	BA	CD		CR		PB		SE	AG		
PBWGK26ICW2		1	16:46		AS	BA	CD		CR		PB		SE	AG		
SG9180-011	IDW-GW-112113	1	16:50		AS	BA	CD		CR		PB		SE	AG		
ZZZZZZ		50	16:55													
ZZZZZZ		250	17:00													
ZZZZZZ		50	17:04													
ZZZZZZ		50	17:09													
ZZZZZZ		50	17:14													
ZZZZZZ		50	17:18													
ZZZZZZ		50	17:23													
CCV		1	17:28	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		
CCB		1	17:32	AL	AS	BA	CD	CA	CR	FE	PB	MG	SE	AG		

FORM XIV - IN

Raw Data Section

KATAHDIN ANALYTICAL SERVICES, INC.
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Cetac M6100 (H) **ANALYST:** EAM **DATE:** 11-25-13

FILE NAME: HGK25A **METHOD:** CVAA

245.1

Analyte : Mercury 7470

CLP

$SnCl_2$: MB 1290 Other (List): _____

REVIEWED
MM 11-25-13
KATAHDIN ANALYTICAL
METALS SECTION

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
CalBlank/ICB/CCB	N/A	11-25-13	12-12-13	0.00 ug/L
Standard #1 / PQL				0.20 ug/L
Standard #2				0.50 ug/L
Standard #3				1.00 ug/L
Standard #4 / CCV				5.00 ug/L
Standard #5				10.00 ug/L
ICV			12-1-13	6.00 ug/L
		MM 11-25-13		

Additional Comments and Notes:

MM 11-25-13

INSTRUMENT RUNLOG

Instrument: CETAC M6100

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Calibration Blank	1.0000	HGK25A	11/25/2013	13:49	EAM
Standard #1 (0.2 ppb)	1.0000	HGK25A	11/25/2013	13:51	EAM
Standard #2 (0.5 ppb)	1.0000	HGK25A	11/25/2013	13:53	EAM
Standard #3 (1.0 ppb)	1.0000	HGK25A	11/25/2013	13:55	EAM
Standard #4 (5.0 ppb)	1.0000	HGK25A	11/25/2013	13:57	EAM
Standard #5 (10.0 ppb)	1.0000	HGK25A	11/25/2013	14:00	EAM
ICV	1.0000	HGK25A	11/25/2013	14:02	EAM
ICB	1.0000	HGK25A	11/25/2013	14:04	EAM
PQL	1.0000	HGK25A	11/25/2013	14:06	EAM
CCV	1.0000	HGK25A	11/25/2013	14:08	EAM
CCB	1.0000	HGK25A	11/25/2013	14:10	EAM
LCSWGK25HGW1	1.0000	HGK25A	11/25/2013	14:12	EAM
PBWGK25HGW1	1.0000	HGK25A	11/25/2013	14:14	EAM
SG8873-002	1.0000	HGK25A	11/25/2013	14:16	EAM
SG9160-001	1.0000	HGK25A	11/25/2013	14:19	EAM
SG9163-001	1.0000	HGK25A	11/25/2013	14:21	EAM
SG9170-001	1.0000	HGK25A	11/25/2013	14:23	EAM
LCSWGK25HGW3	1.0000	HGK25A	11/25/2013	14:25	EAM
PBWGK25HGW3	1.0000	HGK25A	11/25/2013	14:27	EAM
SG9092-001	1.0000	HGK25A	11/25/2013	14:29	EAM
CCV	1.0000	HGK25A	11/25/2013	14:33	EAM
CCB	1.0000	HGK25A	11/25/2013	14:36	EAM
SG9092-002	1.0000	HGK25A	11/25/2013	14:38	EAM
SG9092-003	1.0000	HGK25A	11/25/2013	14:40	EAM
SG9092-004	1.0000	HGK25A	11/25/2013	14:42	EAM
SG9092-005	1.0000	HGK25A	11/25/2013	14:45	EAM
SG9092-006	1.0000	HGK25A	11/25/2013	14:47	EAM
SG9092-007	1.0000	HGK25A	11/25/2013	14:49	EAM
SG9092-007L	5.0000	HGK25A	11/25/2013	14:51	EAM
SG9092-007A	1.0000	HGK25A	11/25/2013	14:53	EAM
SG9092-007P	1.0000	HGK25A	11/25/2013	14:55	EAM
SG9092-007S	1.0000	HGK25A	11/25/2013	14:57	EAM
CCV	1.0000	HGK25A	11/25/2013	15:00	EAM
CCB	1.0000	HGK25A	11/25/2013	15:02	EAM
SG9092-008	1.0000	HGK25A	11/25/2013	15:04	EAM
SG9141-001	1.0000	HGK25A	11/25/2013	15:06	EAM
LCSWGK25HGW2	1.0000	HGK25A	11/25/2013	15:08	EAM
PBWGK25HGW2	1.0000	HGK25A	11/25/2013	15:10	EAM
LC2WGK25HGW2	1.0000	HGK25A	11/25/2013	15:12	EAM
PBT1140A	1.0000	HGK25A	11/25/2013	15:14	EAM
SG8825-027T	1.0000	HGK25A	11/25/2013	15:17	EAM
SG8865-001	1.0000	HGK25A	11/25/2013	15:19	EAM
SG8865-002	1.0000	HGK25A	11/25/2013	15:21	EAM
SG8865-003	1.0000	HGK25A	11/25/2013	15:23	EAM

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
CCV	1.0000	HGK25A	11/25/2013	15:25	EAM
CCB	1.0000	HGK25A	11/25/2013	15:27	EAM
SG8865-004	1.0000	HGK25A	11/25/2013	15:29	EAM
SG8951-002	1.0000	HGK25A	11/25/2013	15:32	EAM
SG8951-002L	5.0000	HGK25A	11/25/2013	15:34	EAM
SG8951-002A	1.0000	HGK25A	11/25/2013	15:36	EAM
SG8951-002P	1.0000	HGK25A	11/25/2013	15:38	EAM
SG8951-002S	1.0000	HGK25A	11/25/2013	15:40	EAM
SG9041-005T	1.0000	HGK25A	11/25/2013	15:42	EAM
SG9041-006T	1.0000	HGK25A	11/25/2013	15:44	EAM
SG9041-007T	1.0000	HGK25A	11/25/2013	15:47	EAM
SG9041-008T	1.0000	HGK25A	11/25/2013	15:49	EAM
CCV	1.0000	HGK25A	11/25/2013	15:51	EAM
CCB	1.0000	HGK25A	11/25/2013	15:53	EAM
SG9041-009T	1.0000	HGK25A	11/25/2013	15:55	EAM
SG9041-010T	1.0000	HGK25A	11/25/2013	15:57	EAM
SG9133-001T	1.0000	HGK25A	11/25/2013	16:00	EAM
SG9180-011	1.0000	HGK25A	11/25/2013	16:02	EAM
LCSWGK25HGW4	1.0000	HGK25A	11/25/2013	16:04	EAM
PBWGK25HGW4	1.0000	HGK25A	11/25/2013	16:06	EAM
SG8951-001	1.0000	HGK25A	11/25/2013	16:09	EAM
SG8951-001L	5.0000	HGK25A	11/25/2013	16:11	EAM
SG8951-001A	1.0000	HGK25A	11/25/2013	16:13	EAM
SG8951-001P	1.0000	HGK25A	11/25/2013	16:15	EAM
CCV	1.0000	HGK25A	11/25/2013	16:17	EAM
CCB	1.0000	HGK25A	11/25/2013	16:19	EAM
SG8951-001S	1.0000	HGK25A	11/25/2013	16:22	EAM
SG8951-003	1.0000	HGK25A	11/25/2013	16:24	EAM
SG8951-004	1.0000	HGK25A	11/25/2013	16:26	EAM
SG8951-005	1.0000	HGK25A	11/25/2013	16:28	EAM
SG8951-006	1.0000	HGK25A	11/25/2013	16:30	EAM
SG8951-007	1.0000	HGK25A	11/25/2013	16:32	EAM
SG8951-008	1.0000	HGK25A	11/25/2013	16:35	EAM
SG8951-009	1.0000	HGK25A	11/25/2013	16:37	EAM
SG9181-001	1.0000	HGK25A	11/25/2013	16:39	EAM
CCV	1.0000	HGK25A	11/25/2013	16:43	EAM
CCB	1.0000	HGK25A	11/25/2013	16:45	EAM

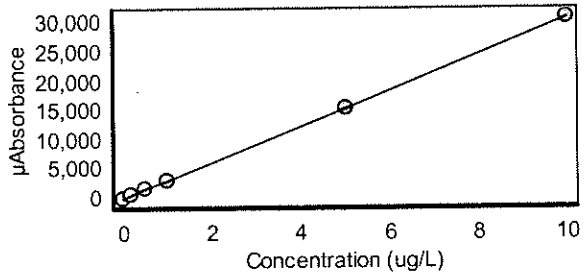
Report Generated By CETAC QuickTrace
Analyst: metals
Worksheet file: C:\Program Files\QuickTrace\Worksheets\HGK25A.wsz
Date Started: 11/25/2013 1:41:45 PM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
Calibration Blank					STD	11/25/13 01:49:32 pm	0.000	-35	55.45		1.00
Replicates	-62.7	-26.6	-17.6	-33.9							
Standard #1 (0.2 ppb)					STD	11/25/13 01:51:38 pm	0.200	753	4.46		1.00
Replicates	721.0	726.9	787.3	775.3							
Standard #2 (0.5 ppb)					STD	11/25/13 01:53:45 pm	0.500	1518	2.74		1.00
Replicates	1487.6	1525.0	1485.2	1574.0							
Standard #3 (1.0 ppb)					STD	11/25/13 01:55:51 pm	1.000	3133	2.61		1.00
Replicates	3041.1	3087.4	3192.6	3210.6							
Standard #4 (5.0 ppb)					STD	11/25/13 01:57:59 pm	5.000	15441	1.11		1.00
Replicates	15205.4	15431.4	15529.7	15597.2							
Standard #5 (10.0 ppb)					STD	11/25/13 02:00:06 pm	10.000	30797	1.16		1.00
Replicates	30330.5	30705.6	31054.6	31098.4							

Calibration

Equation: A = 36.373 + 3077.143C
R2: 0.99997
SEE: 69.5951
Flags:



ICV					ICV	11/25/13 02:02:15 pm	6.422	19798	0.81		1.00
Replicates	19572.3	19796.4	19889.4	19932.1							
% Recovery	107.03										
ICB					ICB	11/25/13 02:04:20 pm	-0.026	-43	48.38		1.00
Replicates	-51.4	-34.6	-67.5	-19.1							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
PQL					CRDL	11/25/13 02:06:26 pm	0.208	676	5.53		1.00
	Replicates	680.7	690.3	710.8	623.5						
	% Recovery	103.98									
CCV					IPR	11/25/13 02:08:33 pm	5.074	15651	1.16		1.00
	Replicates	15422.4	15598.8	15748.8	15834.1						
	% Recovery	101.49									
CCB					CCB	11/25/13 02:10:39 pm	-0.030	-56	28.36		1.00
	Replicates	-50.0	-41.5	-53.5	-78.3						
LCSWGK25HGW1					LCS	11/25/13 02:12:45 pm	5.475	16883	1.71		1.00
	Replicates	16754.6	16562.5	16981.8	17231.6						
	% Recovery	109.49									
PBWGK25HGW1					PBK	11/25/13 02:14:52 pm	-0.025	-39	40.91		1.00
	Replicates	-51.6	-53.1	-20.6	-30.8						
SG8873-002					UNK	11/25/13 02:16:59 pm	0.018	92	32.29		1.00
	Replicates	83.6	53.9	118.4	113.1						
SG9160-001					UNK	11/25/13 02:19:06 pm	-0.014	-7	325.77		1.00
	Replicates	11.8	-38.2	-13.8	11.0						
SG9163-001					UNK	11/25/13 02:21:13 pm	-0.008	11	177.26		1.00
	Replicates	2.0	39.5	-0.6	2.4						
SG9170-001					UNK	11/25/13 02:23:20 pm	0.053	200	16.79		1.00
	Replicates	168.2	232.6	173.6	224.6						
LCSWGK25HGW3					LCS	11/25/13 02:25:27 pm	5.195	16023	1.02		1.00
	Replicates	16211.9	16109.3	15888.2	15884.0						
	% Recovery	103.91									
PBWGK25HGW3					PBK	11/25/13 02:27:35 pm	-0.016	-14	110.91		1.00
	Replicates	-19.3	-32.6	-6.9	3.1						
SG9092-001					UNK	11/25/13 02:29:42 pm	-0.008	11	177.61		1.00
	Replicates	-15.4	15.1	33.5	12.3						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV				CCV	11/25/13 02:33:54 pm	5.699	17572	0.46	Q	1.00
Replicates	17463.0	17563.9	17607.5	17653.0						
% Recovery	113.97									
CCB				CCB	11/25/13 02:36:36 pm	-0.025	-39	53.94		1.00
Replicates	-22.6	-65.6	-47.8	-21.6						
SG9092-002				UNK	11/25/13 02:38:44 pm	-0.007	13	147.09		1.00
Replicates	17.4	31.0	19.6	-14.7						
SG9092-003				UNK	11/25/13 02:40:51 pm	-0.015	-9	421.22		1.00
Replicates	-17.2	6.8	30.5	-54.4						
SG9092-004				UNK	11/25/13 02:42:58 pm	-0.011	4	548.89		1.00
Replicates	-4.5	17.0	-22.6	26.0						
SG9092-005				UNK	11/25/13 02:45:06 pm	-0.001	33	41.99		1.00
Replicates	45.4	44.3	26.5	16.8						
SG9092-006				UNK	11/25/13 02:47:14 pm	-0.023	-33	112.80		1.00
Replicates	-11.3	-74.7	-54.3	6.8						
SG9092-007				UNK	11/25/13 02:49:22 pm	0.001	38	75.29		1.00
Replicates	31.1	0.4	61.2	59.7						
SG9092-007L				UNK	11/25/13 02:51:30 pm	-0.029	19	107.97		5.00
Replicates	43.4	25.4	9.6	-3.4						
SG9092-007A				UNK	11/25/13 02:53:37 pm	0.931	2900	1.82		1.00
Replicates	2836.0	2891.6	2909.4	2964.1						
SG9092-007P				UNK	11/25/13 02:55:45 pm	1.187	3689	1.36		1.00
Replicates	3641.4	3739.6	3724.2	3650.1						
SG9092-007S				UNK	11/25/13 02:57:54 pm	0.931	2902	1.01		1.00
Replicates	2877.3	2901.0	2886.0	2943.2						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	11/25/13 03:00:01 pm	4.881	15057	3.67		1.00
Replicates	14621.4	14756.8	14994.5	15853.6							
% Recovery	97.62										
CCB					CCB	11/25/13 03:02:07 pm	-0.021	-27	116.17		1.00
Replicates	-56.1	-12.9	-49.2	10.4							
SG9092-008					UNK	11/25/13 03:04:15 pm	-0.014	-7	524.21		1.00
Replicates	32.3	-50.7	7.5	-16.0							
SG9141-001					UNK	11/25/13 03:06:23 pm	0.025	114	16.09		1.00
Replicates	92.5	108.4	118.5	136.2							
LCSWGK25HGW2					LCS	11/25/13 03:08:31 pm	5.578	17202	0.34		1.00
Replicates	17138.7	17195.8	17278.6	17195.1							
% Recovery	111.57										
PBWGK25HGW2					PBK	11/25/13 03:10:40 pm	-0.035	-70	36.86		1.00
Replicates	-77.8	-79.1	-90.8	-32.3							
LC2WGK25HGW2					LCS	11/25/13 03:12:48 pm	4.753	14662	1.22		1.00
Replicates	14417.0	14641.4	14804.1	14785.4							
% Recovery	95.06										
PBT1140A					UNK	11/25/13 03:14:57 pm	-0.011	3	794.04		1.00
Replicates	26.6	-30.7	-2.5	19.6							
SG8825-027T					UNK	11/25/13 03:17:05 pm	0.368	1169	1.19		1.00
Replicates	1152.9	1162.0	1180.7	1180.5							
SG8865-001					UNK	11/25/13 03:19:14 pm	-0.004	24	108.45		1.00
Replicates	11.0	25.1	60.8	0.3							
SG8865-002					UNK	11/25/13 03:21:22 pm	-0.004	24	150.39		1.00
Replicates	72.2	34.5	-2.7	-6.2							
SG8865-003					UNK	11/25/13 03:23:31 pm	0.013	77	29.78		1.00
Replicates	81.1	43.3	93.1	89.3							

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV				CCV	11/25/13 03:25:39 pm	5.789	17849	3.04		1.00
Replicates	17602.6	17511.6	17624.8	18658.8						
% Recovery	115.78									
CCB				CCB	11/25/13 03:27:44 pm	-0.018	-20	130.98		1.00
Replicates	2.9	-22.1	-57.3	-5.1						
SG8865-004				UNK	11/25/13 03:29:54 pm	-0.006	17	173.03		1.00
Replicates	32.7	-13.7	51.9	-1.1						
SG8951-002				UNK	11/25/13 03:32:02 pm	-0.013	-3	230.86		1.00
Replicates	6.9	-7.3	-5.6	-5.3						
SG8951-002L				UNK	11/25/13 03:34:11 pm	-0.006	33	123.57		5.00
Replicates	86.5	26.7	30.2	-12.1						
SG8951-002A				UNK	11/25/13 03:36:20 pm	0.921	2871	2.37		1.00
Replicates	2821.7	2823.0	2870.5	2966.9						
SG8951-002P				UNK	11/25/13 03:38:29 pm	1.180	3668	0.49		1.00
Replicates	3669.0	3675.9	3643.2	3685.1						
SG8951-002S				UNK	11/25/13 03:40:39 pm	1.200	3730	1.35		1.00
Replicates	3781.1	3746.2	3730.9	3660.9						
SG9041-005T				UNK	11/25/13 03:42:48 pm	0.000	36	82.40		1.00
Replicates	54.5	62.4	28.6	-2.7						
SG9041-006T				UNK	11/25/13 03:44:57 pm	-0.003	28	100.22		1.00
Replicates	-9.3	54.6	23.7	41.6						
SG9041-007T				UNK	11/25/13 03:47:06 pm	0.011	69	58.59		1.00
Replicates	34.5	116.5	89.7	36.3						
SG9041-008T				UNK	11/25/13 03:49:16 pm	0.008	59	81.47		1.00
Replicates	4.9	34.2	110.4	88.4						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV					CCV	11/25/13 03:51:23 pm	5.782	17828	0.45		1.00
Replicates	17723.4	17805.8	17902.5	17880.0							
% Recovery	115.64										
CCB					CCB	11/25/13 03:53:29 pm	-0.029	-54	47.59		1.00
Replicates	-52.3	-32.3	-41.6	-91.1							
SG9041-009T					UNK	11/25/13 03:55:39 pm	-0.009	9	219.51		1.00
Replicates	1.5	33.7	15.5	-13.8							
SG9041-010T					UNK	11/25/13 03:57:48 pm	-0.015	-11	169.19		1.00
Replicates	-26.7	15.8	-13.3	-20.2							
SG9133-001T					UNK	11/25/13 04:00:29 pm	0.027	118	23.73		1.00
Replicates	106.8	131.1	85.6	149.9							
SG9180-011					UNK	11/25/13 04:02:39 pm	-0.004	25	32.07		1.00
Replicates	26.3	13.9	27.1	33.1							
LCSWGK25HGW4					LCS	11/25/13 04:04:49 pm	5.651	17424	3.38		1.00
Replicates	18219.6	17522.0	17003.2	16951.8							
% Recovery	113.01										
PBWGK25HGW4					PBK	11/25/13 04:06:59 pm	-0.023	-33	209.69		1.00
Replicates	-25.8	-0.7	-132.2	26.3							
SG8951-001					UNK	11/25/13 04:09:08 pm	0.000	36	50.91		1.00
Replicates	52.6	14.3	50.3	27.6							
SG8951-001L					UNK	11/25/13 04:11:18 pm	-0.074	-9	186.94		5.00
Replicates	-23.1	-20.8	13.0	-5.0							
SG8951-001A					UNK	11/25/13 04:13:28 pm	0.968	3015	0.70		1.00
Replicates	2994.5	3009.4	3044.6	3011.1							
SG8951-001P					UNK	11/25/13 04:15:38 pm	1.167	3627	0.82		1.00
Replicates	3666.1	3597.5	3612.2	3631.7							

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
CCV				CCV	11/25/13 04:17:46 pm	5.190	16007	4.93		1.00
Replicates	15212.7	15566.3	16246.0	17001.5						
% Recovery	103.80									
CCB				CCB	11/25/13 04:19:51 pm	-0.014	-7	336.37		1.00
Replicates	-28.8	-22.8	23.5	-0.3						
SG8951-001S				UNK	11/25/13 04:22:02 pm	1.005	3130	0.90		1.00
Replicates	3129.0	3106.7	3114.4	3169.9						
SG8951-003				UNK	11/25/13 04:24:12 pm	-0.020	-26	61.93		1.00
Replicates	-2.4	-28.9	-33.9	-37.3						
SG8951-004				UNK	11/25/13 04:26:22 pm	-0.007	16	178.23		1.00
Replicates	4.1	-19.0	39.5	40.3						
SG8951-005				UNK	11/25/13 04:28:32 pm	-0.016	-12	440.55		1.00
Replicates	5.9	55.0	-64.0	-45.6						
SG8951-006				UNK	11/25/13 04:30:43 pm	-0.019	-22	76.30		1.00
Replicates	1.7	-22.1	-33.5	-35.0						
SG8951-007				UNK	11/25/13 04:32:54 pm	-0.011	1	524.35		1.00
Replicates	7.5	-22.9	-3.2	23.6						
SG8951-008				UNK	11/25/13 04:35:04 pm	-0.006	17	168.80		1.00
Replicates	-24.5	26.2	39.5	25.5						
SG8951-009				UNK	11/25/13 04:37:14 pm	0.001	40	118.86		1.00
Replicates	-2.5	105.6	17.1	38.1						
SG9181-001				UNK	11/25/13 04:39:25 pm	-0.008	13	128.30		1.00
Replicates	-8.2	30.8	18.4	10.1						
CCV				CCV	11/25/13 04:43:50 pm	5.811	17919	0.58		1.00
Replicates	17786.1	17890.4	17978.8	18020.8						
% Recovery	116.23									

KATAHDIN ANALYTICAL SERVICES, INC.
METALS ANALYSIS RUN INFORMATION SHEET

INSTR. ID: Thermo ICAP 6500 **ANALYST:** NT **ANALYSIS DATE:** 12/2/13

FILE NAME: IGL02A

REVIEWED
12-03-13
KATAHDIN ANALYTICAL
METALS SECTION

METHOD:

ICP	ICP-MS	CVAA
☑ 200.7	☐ 200.8	☐ 245.__
☑ 6010B	☐ 6020	☐ 747__
☐ CLP	☐ CLP	☐ CLP
☐ _____	☐ _____	☐ _____

STANDARDS USED:

Standard Name	Standard ID	Prep Date	Expiration Date	Standard Conc.
Cal Blk, ICB, CCB	MW14578	11/14/13	11/14/14	0 ug/L
Cal Std	MW14589	11/18/13	2/18/14	varies by element
ICV	MW14588	11/18/13	12/30/13	
PQL	MW14598	11/19/13	2/19/14	
LRS1	MW14569	11/13/13	12/5/13	
LRS2	MW14570	11/13/13	11/18/13 *	
ICSA	MW14590	11/18/13	2/18/14	
ICSAB	MW14592	11/18/13	12/5/13	
CCV	MW14614	11/30/13	2/30/14	
internal Std	MW14586	11/18/13	2/18/14	5mg/L Y

Additional Comments and Notes:

* Si expired at midnight on 11/18/13 all other analytes are still valid in solution

NT 12/2/13

INSTRUMENT RUNLOG

Instrument: ICAP 6500

SAMPLE ID	DF	FILE	DATE	TIME	ANALYST
Blank	1.000	IGL02A	12/2/2013	15:46	NAT
Std 1	1.000	IGL02A	12/2/2013	15:50	NAT
ICV	1.000	IGL02A	12/2/2013	15:55	NAT
ICB	1.000	IGL02A	12/2/2013	15:59	NAT
PQL	1.000	IGL02A	12/2/2013	16:04	NAT
LRS1	1.000	IGL02A	12/2/2013	16:08	NAT
LRS2	1.000	IGL02A	12/2/2013	16:13	NAT
ICSA	1.000	IGL02A	12/2/2013	16:23	NAT
ICSAB	1.000	IGL02A	12/2/2013	16:28	NAT
CCV	1.000	IGL02A	12/2/2013	16:32	NAT
CCB	1.000	IGL02A	12/2/2013	16:37	NAT
LCSWGK26ICW2	1.000	IGL02A	12/2/2013	16:41	NAT
PBWGK26ICW2	1.000	IGL02A	12/2/2013	16:46	NAT
SG9180-011	1.000	IGL02A	12/2/2013	16:50	NAT
SG8865-001	50.00	IGL02A	12/2/2013	16:55	NAT
SG8865-001L	250.0	IGL02A	12/2/2013	17:00	NAT
SG8865-001A	50.00	IGL02A	12/2/2013	17:04	NAT
SG8865-001D	50.00	IGL02A	12/2/2013	17:09	NAT
SG8865-001S	50.00	IGL02A	12/2/2013	17:14	NAT
SG8865-002	50.00	IGL02A	12/2/2013	17:18	NAT
SG8865-003	50.00	IGL02A	12/2/2013	17:23	NAT
CCV	1.000	IGL02A	12/2/2013	17:28	NAT
CCB	1.000	IGL02A	12/2/2013	17:32	NAT
SG8865-004	50.00	IGL02A	12/2/2013	17:37	NAT
SG9049-001	1000.	IGL02A	12/2/2013	17:42	NAT
LCSWGK27ICW1	1.000	IGL02A	12/2/2013	17:46	NAT
PBWGK27ICW1	1.000	IGL02A	12/2/2013	17:51	NAT
SG9182-001	1.000	IGL02A	12/2/2013	17:55	NAT
SG9182-001L	5.000	IGL02A	12/2/2013	18:00	NAT
SG9182-001A	1.000	IGL02A	12/2/2013	18:05	NAT
SG9182-001P	1.000	IGL02A	12/2/2013	18:09	NAT
SG9182-001S	1.000	IGL02A	12/2/2013	18:14	NAT
SG9182-002	1.000	IGL02A	12/2/2013	18:18	NAT
CCV	1.000	IGL02A	12/2/2013	18:23	NAT
CCB	1.000	IGL02A	12/2/2013	18:27	NAT
SG9182-003	1.000	IGL02A	12/2/2013	18:32	NAT
SG9182-004	1.000	IGL02A	12/2/2013	18:36	NAT
SG9182-005	1.000	IGL02A	12/2/2013	18:41	NAT
SG9182-006	1.000	IGL02A	12/2/2013	18:46	NAT
SG9182-007	1.000	IGL02A	12/2/2013	18:50	NAT
SG9182-008	1.000	IGL02A	12/2/2013	18:55	NAT
LCSWGK27ICW2	1.000	IGL02A	12/2/2013	19:00	NAT
PBWGK27ICW2	1.000	IGL02A	12/2/2013	19:04	NAT
SG8951-001	1.000	IGL02A	12/2/2013	19:09	NAT

Intensity Report

u h A: t or

Published: 12/32103: 7:5588 AM

es :Not

Blank

eh lalmt ce :K6 - 10 02 101 eh ld teisi R: vo 1n 033,

ayl sam net :N T N

cquiDa er: t 12/2/2 1046 :3P: 2 M Samp lTyp e : Sa a d td nr

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	. 0 000102 00	C Ss / t .	09 0010 00	.1 1 53	.9 3 88
96 _3A1	R	. 06 002 3 0	C Ss / t .	0 0021 3 0	9 .4 0 3	9. 6 0 7
s9 1_A18	A	. 4 0000 08	C Ss / t .	06 0003 00	4.64 7	.4 60 33
u4 2A2 7	A	. 09 002 50	C Ss / t .	06 0010 00	6. 9 1 7	. 2 32 5
B_ 92 0 8	A	. 60 0012 0	C Ss / t .	04 0000 000	.6 60 3 5	.499 5
Ba4 4_ 55	R	. 4 010 8	C Ss / t .	0 0000 0800	.4 90 3 0	. 9 70 5
B e _3 30	R	. 04 0037 0	C Ss / t .	0 0021 1 0	6. 53	4. 1 3 8
Ca _3 58	R	. 6 0010 00	C Ss / t .	09 0003 70	4 . 2 38	-6. 69 0
C 6 22 5	A	. 0 0010 3 0	C Ss / t .	6 0000 650	49. 1 5	- . 4 1 7
C 622 o 8	A	. 96 002 0	C Ss / t .	0 0001 00	.6 3 3 5	.6 92 5
C 6 2 r77	A	. 0 0010 650	C Ss / t .	0 0010 08	.11 87	4. 08 5
Cu _32 37	A	. 0 0002 2 00	C Ss / t .	04 0000 000	.44 3	. 1 033
F e992 5	R	. 0 010 102	C Ss / t .	40 001 2 0	4 .69 0	. 3 888
K_ 664_ 7	R	- . 60 602 2	C Ss / t .	09 0000 700	. 6 3 00	- . 1 00 7
L6i _ 70 7	R	- . 09 00 58	C Ss / t .	09 001 8	. 321 3	- .6 22 2
g 2M2 5	A	- . 06 003 7 0	C Ss / t .	06 0003 00	9.6 9 8	- . 4 33 7
62M 57n	R	. 09 0000 800	C Ss / t .	04 0000 500	6 .4 0 7	.4 4 3 0
2M2o0	A	. 0 0102 11	C Ss / t .	09 002 2 00	. 2 3 85	. 1 0 88
a 9 _ N5 85	R	. 0 0102 77	C Ss / t .	60 000 700	.4 2 5 8	49. 0 8
i 62 3N	A	- . 0 0001 5	C Ss / t .	0 0003 650	. 9 3 00	- . 1 03 5
P b 22 03	A	- . 09 0033 0	C Ss / t .	09 002 2 00	.4 6 18	- . 4 3 0 7
S b6 2 0 8	A	. 0 0000 6500	C Ss / t .	06 0003 00	. 6 272	.449 0 2
S 96 1_ 0	A	. 0 0010 1 8	C Ss / t .	0 0000 6500	. 2 7227	.6 1 2 7
S i 62 15	R	. 44 000 8 0	C Ss / t .	0 0001 00	. 1 3 10	.4 32 0
S 991_ 8n	A	. 0 0010 21 0	C Ss / t .	0 0010 650	. 6 2 5	. 9 1 01
S 4 _21 r 5	R	. 0 0033 65	C Ss / t .	0 0002 700	. 118 5	. 6 2 8
T i49_33	A	- . 66 0000 00	C Ss / t .	0 0002 650	. 3 7 58	- . 92 1 1
T 91_ 0 8	A	- . 0 0010 3 70	C Ss / t .	0 0003 000	.9 21 7	- . 1 2 32
V_ 9 42 2	A	. 04 0000	C Ss / t .	06 0000 000	.1 65 7	- . 6 2 5
Z 6 2 02 n	A	. 66 0000 00	C Ss / t .	04 002 2 00	. 3 57 8	. 9 0 25 7
Y_ 6 _3 00	R	3 38 57	C Ss / t	. 3 003	. 4 738	3 38 57
Y_ 4 22 3	A	94. 8 8	C Ss / t	. 187 8	. 9696 0 7	94. 8 8
Y_ 6 _3 00	A	32 3 08	C Ss / t	29 165 ,	. 6 0 770 8	32 3 08

Std 1

eh lalmt ce :K6 - 10 02 101 eh ld teisi R: vo 1n 033,

ayl sam net :N T N

cquiDa er: t 12/2/2 103 :3P:53 8 M Samp lTyp e : Sa a d td nr

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	. 94 660 0	C Ss / t .	04 001 0 0	. 901 0	42 850,
96 _3A1	R	. 90 288	C Ss / t .	6 000 38	. 90 737	32 80,
s9 1_A18	A	. 60 03 15	C Ss / t .	0 0000 10 000	. 0 003 70	.4307
u4 2A2 7	A	.464 0 8	C Ss / t .	90 600 70	. 992 0	4 103,
B_ 92 0 8	A	. 6 01 7	C Ss / t .	60 001 70	. 4 0 30	1 00 ,8
Ba4 4_ 55	R	. 92 0 5	C Ss / t .	610 03	. 90 25	66 7 70,
B e _3 30	R	. 4 15	C Ss / t .	962 7	. 0 5577	61 8 700,
Ca _3 58	R	.4 1 33	C Ss / t .	010 28	. 1 2 27	4 353 0,
C 6 22 5	A	.4 61 7	C Ss / t .	609 001 0	. 4 900 1 3	12 76,
C 622 o 8	A	.4 02 7 8	C Ss / t .	0 0001 170	. 9 003 87	69 3 3,
C 6 2 r77	A	. 4 660 08	C Ss / t .	90 0001 00	. 0 887	4 1 503
Cu _32 37	A	. 6 00 538	C Ss / t .	0 0022 00	. 6 03 38	4 27 0,
F e992 5	R	. 42 10	C Ss / t .	010 3 77	.6 0 387	499 7 0,

Std 1

eh Mt oe:K6 - 10 02 101 eh M eis R: vo 1n 033,
ayl sAm n e:N T A
cq u iDa er: t 1 2/2/2 10 3 :3 P:6 53 8 M Samp lTyp e : S a a d d nr

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
K_ 664_ 7	R	. 0 555 8 C	Ss / t	. 4000 870	. 0 2 5 5	692 0 0,
L6i _ 70 7	R	. 03 7 8 C	Ss / t	. 6000 86	. 022 3 0	4 44 0,
g 2M0 5	A	.4 9 0 80 C	Ss / t	. 90 0002 70	. 960 8	4 222 ,
62M 57n	R	.4 9601 C	Ss / t	. 0 003 35 5	.4 0 28 5	61 52 0,
2M0o0	A	. 4602 0 C	Ss / t	. 60002 5	.6 401 8	66 7 ,
a 9 _ 5 8 5	R	.6 6 1 C	Ss / t	. 0601 8 8	. 6 0 6 7	6 6 0 0,
i 62 1N	A	. 9602 3 C	Ss / t	. 04002 0	. 9490 8	692 0 ,
P b 22 03	A	. 0 030 C	Ss / t	. 040003 00	. 002 5 8	9. 880
S b 6 2 0 8	A	. 4 90 0 3 8	Ss / t	. 400001 00	. 9 90 0 3 0	9. 3 7 7
S 96 1 0	A	. 021 0 7C	Ss / t	. 9000 6	.9 4 02 2	.9 1 8
S i 62 1 5	R	. 0 2 5 7 5C	Ss / t	. 6900 00 3 7	. 1 1 5	9 64 0,
S 991_ 8n	A	. 4 40 0 70 C	Ss / t	. 40000 3 00	. 9 690 0 0	4 6. 01
S 4 _21 r 5	R	. 2 700 C	Ss / t	. 910 00	. 603 37	1 00 60,
T i49_33	A	. 6 0 3 7C	Ss / t	. 409000 3 0	. 0321 0	4 461 0,
T 9 1 0 8	A	. 46 60 8C	Ss / t	. 0 00001 500	. 9 0 0 3	4 4.6 0
V_ 9 42 2	A	. 66 40 8C	Ss / t	. 090002 0	. 9 90 2	2 02 03,
Z 6 2 02 n	A	. 9 02 85C	Ss / t	. 64000 70	. 6 021 8	2 577
Y_ 6 _3 00	R	3 273 7C	Ss / t	4. 192 7	. 0331 25	3 273 7
Y_ 4 22 3	A	6 .6 833 , C	Ss / t	4.6 43 1	.4 90 00 3	6 .6 833 ,
Y_ 6 _3 00	A	4 3 031 0,C	Ss / t	4 . 91 2 5	. 6010 31 0	4 3 031 0,

ICV

eh Mt oe:K6 - 10 02 101 eh M eis R: vo 1n 033,
ayl sAm n e:N T A
cq u iDa er: t 1 2/2/2 10 3 :3 P: 553 M Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	9. 3 83	ug L /	.6 2 75	.6 0 18	11 3 03,
96 _3A1	R	1 0330,	ug L /	.1 032	.999 0 1	4 3 70,
s9 1_A18	A	96. 3 1	ug L /	.4 1 37	. 0317 8	.1 2 3 7
u4 2A2 7	A	9 . 3 1 8	ug L /	. 9 1 5	. 6031 8	6 1 21 ,
B_ 92 0 8	A	9 .63 0	ug L /	.4 9 3	. 6 603 8	4 . 20 7
Ba4 4_ 55	R	9 . 321	ug L /	. 1 735	.44 0 70	4 30 6,
B e _3 3 0	R	9 . 31 2	ug L /	4.9 6 7	. 1 2 27	37 80,
Ca _3 58	R	1 03 6,	ug L /	.6 55	. 4 6	22 32 0,
C 6 22 5	A	9 . 322	ug L /	.94 0 77	. 4 021 7	66 50 ,
C 622 o 8	A	4 . 003	ug L /	. 6 0032 5	. 9 0 00 0 57	1 60,
C 6 2 r77	A	9 . 31 2	ug L /	.9 1 17	. 0 63 8	5 86,
C u _32 37	A	9 . 32 8	ug L /	. 6 3 5 5	.9 0 0 7 5	6 94 ,8
F e992 5	R	41 0 00,	ug L /	.1 332	. 1 2 03	3 503,
K_ 664_ 7	R	41 3 2 0,	ug L /	.11 1 8	. 990 87	911 0,
L6i _ 70 7	R	4 . 0 6	ug L /	.4 5 8	.4 1 32	94 5 ,5
g 2M0 5	A	41 02 0,	ug L /	.1 0 87	. 4 0 0 3	1 17 8,
62M 57n	R	9 .43 5	ug L /	4. 4 85	. 1 22 8	6 2 6,
2M0o0	A	4 4.9 0	ug L /	. 9900 8 5	. 02221	. 37 3
a 9 _ 5 8 5	R	41 0 70,	ug L /	. 157 5	. 4 90 5 5	2 15 50,
i 62 1N	A	9 .63 8	ug L /	. 6 0 0 535	. 64410	. 38 5
P b 22 03	A	4 4.9 0	ug L /	. 64 0	. 6 02 2 8	6 . 3 31
S b 6 2 0 8	A	9 . 31 8	ug L /	. 1 3 7 8	. 6031 5	.1 1 5 0
S 96 1 0	A	96. 3 7	ug L /	6. 333	. 961 5	4. 9 7 0
S i 62 1 5	RF	9 5 50,	ug L /	4 1 3 ,8	. 1 6 5	75 2 80,
S 991_ 8n	A	99.43	ug L /	. 0 03 8	. 4 0 0 25 8	6 .1 15
S 4 _21 r 5	R	4 . 0 7 5	ug L /	4. 310	. 1 0 55	4 441 0,
T i49_33	A	9. 3 18	ug L /	. 4 27	.44 0 3 0	6 1 350,
T 9 1 0 8	A	4 . 10 5	ug L /	.9 1 11	.4 6 0 70	64.1 0
V_ 9 42 2	A	9 . 3 0 7	ug L /	. 992 0	. 0 3527	118 ,8
Z 6 2 02 n	A	4 . 20 0	ug L /	. 0 7250	. 0 18	1 0 6,
Y_ 6 _3 00	R	663 71 ,C	Ss / t	6.4 33 7	. 9 40 8 3	663 71 ,

ICV

eh ldmt ce:	K6 - 10 02 10				eh ldeis	R vo 1n 03 3,	
ayl sAm nt:	N T N						
cqu iDa er:	t 12/2/2 10 3 :3 P 55 3 M				Samp lTp e:	QC	
Elem	**Flags**	**Avg**	**Units**		**Stddev**	**%RSD**	**Intensity Ratio**
Y_ 4 22 3	A	. 87 53	C Ss	/ t	4. 1 70 5	. 4 60 60 7 5	. 87 53
Y_ 6 _3 00	A	99 3 0 0,	C Ss	/ t	91. 0 7, 8	. 03 3500	99 3 0 0,

ICB

eh ldmt ce:	K6 - 10 02 10				eh ldeis	R vo 1n 03 3,	
ayl sAm nt:	N T N						
cqu iDa er:	t 12/2/2 10 9 :3 P 52 M				Samp lTp e:	QC	
Elem	**Flags**	**Avg**	**Units**		**Stddev**	**%RSD**	**Intensity Ratio**
g _2A 03	A	-. 440 5	ug L	/	. 90 33 5	. 21 75	-. 6 0 2 5
96 _3A1	R	. 61 32	ug L	/	. 942 8	. 212 5	. 6 0 8
s9 1_A18	A	. 42 3	ug L	/	. 02 82 5	.663 5	. 11 27
u4 2A2 7	A	-. 96 02 0	ug L	/	.4 40 27	9.6 5	. 1 0 8
B_ 92 0 8	A	-. 03 2 57	ug L	/	. 94 02 1	9 . 03 2	. 25 2 5
Ba4 4_ 55	R	-. 69 40 8	ug L	/	. 9 00 11 7	.1 30 5	64. 2 8
B e _3 30	R	-. 66 00 71	ug L	/	. 01 0 00 3	. 1 3 1 0	-. 4 69 0 5
Ca _3 58	R	-. 4 33 8	ug L	/	. 3 55 8	6.1 0 3	-. 1 3 3 0
C 6 22 5	A	. 00 3 87 5	ug L	/	. 90 22 8	9. 53	-. 6 9 0 25
C 6 22 o 8	A	-. 9 0 3 5	ug L	/	. 9 00 1 38	6. 15 8	. 42 12
C 6 2 r 77	A	-. 9 01 0 2 8	ug L	/	. 6 01 0 2 8	. 4 21 8	4. 4 6 7
Cu _2 37	A	-. 49 00 7 3	ug L	/	. 6 0 1 0 02	4 . 1 1 8	. 83 8 8
F e99 2 5	R	. 6 02 35	ug L	/	4. 9 2 0	9 1 5,	9. 3 1 7
K_ 664_ 7	R	. 3 1 0	ug L	/	.6 18	.69 2 7	-. 3 11
L6i _ 7 0 7	R	. 2 1 7 8	ug L	/	.4 60 27	. 9 7 3	.6 1 7 5
g 2M 2 0 5	A	.4 2 7 0	ug L	/	. 2 12 1	.9 85 0	-. 9 2 3 2
62M 57n	R	-. 4 01 8	ug L	/	. 9 0 3 1	. 62 17	. 1 25 8
2M 2o 0	A	. 1 2 25	ug L	/	.9 0 35 7	4.44 5	4. 4 0
a 9 _ N 8 5	R	-6. 99 2	ug L	/	.46 3 1	4.94 5	.9 3 2 8
i 62 3N	A	. 0 2 1 8	ug L	/	. 60 1 7	9 . 6 1 7	-. 0 2 5 5
P b 22 03	A	. 03 2 55	ug L	/	. 4 90 2 8	6.46 7	-. 9 2 3 7
S b 6 2 0 8	A	. 6 1 22	ug L	/	. 49 0 3 7	. 3 0 58	.9 6 0 2 2
S 98 6 1_ 0	A	. 9 5 0 3	ug L	/	. 46 2 3	46. 0 7	. 4 2 57
S i 62 1 5	R	. 62 57	ug L	/	.9 3 58	. 1 5 7	. 4 25 5
S 99 1_ 8n	A	. 46 0 7 8	ug L	/	. 9 0 8 0	. 2 5	.4 1 2 0
S 4 _2 1 r 5	R	-. 6 0 3 7	ug L	/	. 0 0 1 3 83	6. 0 2 8	-. 1 2 55
T i49_33	A	.6 40 0 7	ug L	/	. 4 0 7 8	. 2 87 8	. 55 88
T l 1_ 0 8	A	. 90 21 5	ug L	/	. 40 21 8	.1 10 2	-. 1 1 3 8
V_ 9 42 2	A	-. 4 90 0 7 5	ug L	/	. 40 22 2	46. 3 8	-. 2 57 8
Z 6 2 02 n	A	-. 4 01 1	ug L	/	. 40 0 3	9 .6 0 2	. 90 2 85
Y_ 6 _3 00	R	3 7 28,	C Ss	/ t	. 29 0 0	. 4 0 55 7 5	3 7 28,
Y_ 4 22 3	A	96 . 8 0 3,	C Ss	/ t	9.6 4 3 7	. 0 0 7 35	96 . 8 0 3,
Y_ 6 _3 00	A	9 3 2 7 0,	C Ss	/ t	9 .4 3 5 7	. 0 2 3 8 7	9 3 2 7 0,

PQL

eh ldmt ce:	K6 - 10 02 10				eh ldeis	R vo 1n 03 3,	
ayl sAm nt:	N T N						
cqu iDa er:	t 12/2/2 40 4 : P 0 7 M				Samp lTp e:	QC	
Elem	**Flags**	**Avg**	**Units**		**Stddev**	**%RSD**	**Intensity Ratio**
g _2A 03	A	9.9 10	ug L	/	. 4 0 0 03 5	.4 0 0 75	. 3 10 8
96 _3A1	R	. 3 2 0	ug L	/	. 44 17	. 9 2 2 0	4 9. 2 8
s9 1_A18	A	6.6 6 1	ug L	/	. 60 3 0 7	4.6 49	. 2 55 7
u4 2A2 7	A	96. 2 8	ug L	/	.4 9 40 7	.49 90 7	4 4. 0 7
B_ 92 0 8	A	46.6 7	ug L	/	. 9 96 0	.4 60 2 7	. 25 7 8
Ba4 4_ 55	R	4.94 5	ug L	/	. 6 40 0 50	. 1 32 2	4 9. 5 2
B e _3 30	R	4. 96 7	ug L	/	. 6 40 1 8	. 91 2 0	9 . 3 2 3
Ca _3 58	R	.6 1 03	ug L	/	6.9 21	6.6 1 8	.9 22 0
C 6 22 5	A	4.9 4 7	ug L	/	. 0 0 0 35 8	. 1 0 27	64. 9 8
C 6 22 o 8	A	9. 6 7 5	ug L	/	. 4 0 0 5	. 1 0 7 0	4 . 0 2 7

PQL

eh lldmt ce:K6 - 10 02 101 eh ldl teisi R: vo 1n 033,
ayl sAm n et:N T N
cquiDa er: t 12/2/2403 4: P0 07 M Samp lTyp e: QC

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
C 6 2 r77	A	9.64 1	ugL	/	. 9 02 3	. 41 32	.1 252
Cu _32 37	A	. 2 5 8	ugL	/	. 9 40 15	. 2 330	469.6
F e992 5	R	.1 20 7	ugL	/	4. 4 25	4.4 23	4. 3 5 8
K_ 664_ 7	R	4 10 ,	ugL	/	6.4 17	.6 0 3 38	6 . 7 50
L6i _ 07	R	.1 0 50	ugL	/	. 42 15	.4 2 2 0	6 35 ,
g 2M20 5	A	6.1 0 7	ugL	/	.4 1 75	. 1 32 8	.61 53
62M 57n	R	4.9 6 1	ugL	/	. 66032	6.644	. 218 8
2M2oo	A W	.9 730	ugL	/	. 9402 0	. 64 02 0	.4 2 5
a 9 _ N8 5	R	6 0 5,	ugL	/	. 537	. 4 90 25	6 42 5,
i 62 3N	A	9. 12	ugL	/	. 0 20 7	. 1 0 58	9.91 3
P b 22 03	A	. 46 5 8	ugL	/	. 402 58	4.4 2 0	. 92 3 5
S b 6 2 0 8	A	. 6 825	ugL	/	.6 9 0 7 8	.94 7 0	.4 3 3 0
S 96 1_ 0	A	9.9 20	ugL	/	.4 2 88	. 2 152	.49 3 1
S i 62 15	R	9 .1 2 3	ugL	/	.6 71 5	.9 3 7 8	.1 187
S 991_ 8n	A	4.11 3	ugL	/	.6 6 02 3	. 4 90 57	49. 6 3
S4 _21 r 5	RF	- . 4012	ugL	/	. 0230	9.4 0	. 1 2 7 8
T i49_33	A	4.66	ugL	/	. 0 38	. 49 2	6 6.91
T 9 1_ 0 8	A	. 9 5	ugL	/	.6 1 1 0	.46 0	. 2528
V_ 942 2	A	9. 4 50	ugL	/	. 6 03 0	. 3 32	. 2 201
Z 6 2 02 n	A	9. 1 17	ugL	/	. 602 57	. 0 32	. 6 35 5
Y_ 6 _3 00	R	48 228 ,C Ss	/ t		9 . 931 7	. 1 20 6	48 228 ,
Y_ 4 22 3	A	999.9 8 , C Ss	/ t		4.91 21	. 6 0 508	999.9 8 ,
Y_ 6 _3 00	A	48 38 0,C Ss	/ t		6.92 83	. 9 04 0103	48 38 0,

LRS1

eh lldmt ce:K6 - 10 02 101 eh ldl teisi R: vo 1n 033,
ayl sAm n et:N T N
cquiDa er: t 12/2/2403 4 P0 8 5 M Samp lTyp e: QC

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
g _2A 03	A F	9 .4 77	ugL	/	.9 1 21	. 96 0 5	962 7 0,
96 _3A1	R	99. 20	ugL	/	. 4 73 7	.4 9 71	1 303,
s9 1_A18	A	2 0 00,	ugL	/	6 .992	. 03 33	6 07,
u4 2A2 7	A	2 0 350,	ugL	/	.1 7 88	. 0 80 8	03 56,
B_ 92 0 8	A	62 02 0,	ugL	/	. 17 08	. 4 03 53	9 9 80,
Ba4 4_ 55	R	9 4 2 0,	ugL	/	4 .6 25	. 2 218	1 63,000,
B e _3 30	RW	61 8 03,	ugL	/	.1 20 0	. 4 0 5 58	6 3 50,000,
Ca _3 58	R	. 2 283	ugL	/	.6 3 17	. 1 300	6 .9 15
C 6 22 5	A	9 1 21 0,	ugL	/	4. 3 35	. 90 0 7 7	942 3 00,
C 622 o 8	A	9 1 80,	ugL	/	. 917 8	. 6 031 8	17 700,
C 6 2 r77	A	9 4 50,	ugL	/	49.1 0	. 6 40 2	92 2 8 00,
Cu _32 37	A	9 1 80,	ugL	/	. 321 1	.6 6 1	4 31 000,
F e992 5	R	-9.6 6	ugL	/	. 03 56	.6 9 3 7	.9 8
K_ 664_ 7	R	. 3000	ugL	/	. 4 32 1	. 1 0 08	- 4. 72 7
L6i _ 07	R	9 1 700,	ugL	/	.42 3 7	. 1 2 0 5	9 62 0 00,
g 2M20 5	A	- 3101 ,	ugL	/	.4 2 28	.944 0 0	4 . 2 32
62M 57n	R	9 6 1 0,	ugL	/	.1 57 8	. 4 02 80	3 01 500,
2M2oo	A	9 9 50,	ugL	/	.1 0 5 8	. 990 35	33 370,
a 9 _ N8 5	R	94. 85	ugL	/	. 3 0 65	. 6 321	. 2 1 18
i 62 3N	A	9 9 1 1 0,	ugL	/	64. 9 5	. 4 032 5	4 4 0 65,
P b 22 03	A	4 2 0 00,	ugL	/	44.4 1	. 021 77	9 1 7 80,
S b 6 2 0 8	A W	21 2 50,	ugL	/	4. 7 7 5	. 4 03 37	99 7 0,
S 96 1_ 0	A	4 2 01 0,	ugL	/	9 . 38	.4 90 1 8	6 3 0 5
S i 62 15	R	9 1 080,	ugL	/	. 1 283	. 4 0 0 1 2	6 1 0 65,
S 991_ 8n	A	2 0 22 0,	ugL	/	6. 3 3	. 960 7	68 0,
S4 _21 r 5	R	9 1 2 50,	ugL	/	. 3 0 55	. 60 10 5 5	2 02 0 ,000,
T i49_33	A F	. 9 1 77	ugL	/	. 03 57	. 4 77	1 2 10 ,
T 9 1_ 0 8	A F	4.69 8	ugL	/	. 6 6031	.4 69 02	6.442

LRS1

eh lalmt oe :K6 - 10 02 101 eh Md eis R vo 1n 033 ,
ayl sAam net :N T A
cq u i Da er: t 1 2/2/2 40 3 4 P0 8 5 M Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
V_ 9 42 2	A	9 6 50,	ug L /	. 15 8 7	. 9 402 7	9 3 3 60,
Z 6 2 02 n	A W	1 38 80,	ug L /	. 8285	.4 0 10	4 6 7 50,
Y_ 6 _3 00	R	9 3 7 38 C	S s / t	4 . 2 2 2 5	.6 0 9 3 77	9 3 7 38
Y_ 4 22 3	A	464. 8 3 C	S s / t	. 9 2 51	. 60 08 5	464. 8 3
Y_ 6 _3 00	A	6310 3 0, C	S s / t	9 . 2 73 0	. 9 60 0 82 5	6310 3 0,

LRS2

eh lalmt oe :K6 - 10 02 101 eh Md eis R vo 1n 033 ,
ayl sAam net :N T A
cq u i Da er: t 1 2/2/2 40 3 : 1P3 5 8 M Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 08	A	. 72 3	ug L /	. 4 40 0 3 8	. 9 0 53 7	- 9 9 5,
96 _3A1	R W	35 80 80,	ug L /	11 3 00,	. 9 2 0 8	69 32 00,
s9 1_A1 8	A	.462 8	ug L /	. 51 77	. 2 02 7	. 990 7
u4 2A2 7	A	. 9 3 8 5	ug L /	. 462 0	. 2 5 35	4. 9 0
B_ 92 0 8	A	4.41 5	ug L /	. 9 0 0 7 8	6. 2 38	9. 9 1
Ba4 4_ 55	R	.6 0 22 3	ug L /	. 4 0 0 5	. 22 5 8	.91 3
B e _13 3 0	R	. 4 0 525	ug L /	. 0 003	. 1 1 80	4. 11 2
Ca _13 5 8	R	4 16 00,	ug L /	803 5	. 6 7 5	49 0 ,000,
C 6 22 5	A	. 2 535	ug L /	. 9 0 0 557	. 44 3 7	4. 4 32
C 622 o 8	A	- . 4 0 3 7	ug L /	. 90 33	99. 4 2	. 11 3 5
C 6 2 r77	A	- . 0 3 7 6	ug L /	. 0 00 03 7	. 91 0 3	. 4 602 1
C u _32 37	A	- . 21 3 0	ug L /	. 0 0 538	. 92 37	4 . 4 8 8
F e992 5	R	2 3 38 00,	ug L /	1 2 27,	. 60 353	4 70 00,
K_ 664_ 7	R	96 2 1 00,	ug L /	1 1 7 7	. 9 0 57 8	4 2 1 3 00,
L6i _ 70 7	R	.99 2	ug L /	. 021 3 5	.641 3	6 . 1 2 7
g 2M0 5	A	9 9 8 00,	ug L /	4 9.61	. 902 2 0	462 8 0,
62M 57n	R	. 4 703	ug L /	. 013 22	4.4 3 8	. 1 1 7 0
2M0o 0	A	9.94 5	ug L /	. 11 20	. 9 38	. 1 03 5
a 9 _ N5 8 5	R	99 1 1 00,	ug L /	9. 38 3	. 4 60 21	469 2 00,
i 62 13N	A	. 9 3 3 5	ug L /	. 640 00 88	. 6490	- 6. 1 1 7
P b 22 03	A	. 6 5 88	ug L /	. 2 2 88	4 . 02 3	-49. 32
S b 6 2 0 8	A	4. 4 3 0	ug L /	. 9 1 1 5	44. 0 5	. 2 8 57
S 96 1_ 0	A	. 49 13	ug L /	9. 6 2 8	9. 492	9. 6 7 8
S i 62 1 5	R F	6 49 8 0,	ug L /	4 . 2 00	. 4 60 0 85	66 49 0,
S 991_ 8n	A	4. 1 77	ug L /	. 442 5	. 1 272	6. 9 2 0
S 4 _21 r 5	R	. 4 2 8	ug L /	. 4 610 2	. 0 16 5	9 . 42 2
T i49_33	A	. 9 27 5	ug L /	. 6990	. 4 2 31	4. 2 52
T 9 1_ 0 8	A	. 2111	ug L /	. 6 0 70	. 44 33	- . 1 187
V_ 9 42 2	A	. 6 0 2 5	ug L /	. 6 021 0	. 9 32	6. 9 5 7
Z 6 2 02 n	A	6. 9 2 8	ug L /	. 010 2 33	. 9 0 5 8	. 4 50
Y_ 6 _3 00	R	6 3 63, C	S s / t	. 1 725	. 4 0 080	6 3 63,
Y_ 4 22 3	A	4. 7271, C	S s / t	6. 2 825	. 60 382	4. 7271,
Y_ 6 _3 00	A	2 373 00, C	S s / t	9 . 9 285	. 6 0 03 025	2 373 00,

ICSA

eh lalmt oe :K6 - 10 02 101 eh Md eis R vo 1n 033 ,
ayl sAam net :N T A
cq u i Da er: t 1 2/2/2 40 3 : 2P31 7 M Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 08	A	. 641 2	ug L /	. 9 0 28	4. 4 53	- 664 ,
96 _3A1	R	9 9 6 00,	ug L /	6 1 7 5	. 032 85	64 4 7 00,
s9 1_A1 8	A	. 1 328	ug L /	. 022 7 5	. 41 2 2	- . 59 5
u4 2A2 7	A	-4.6 2 8	ug L /	. 4 402 0	. 1 53 5	6. 520
B_ 92 0 8	A	. 4 5 6	ug L /	. 64 0 8 8	. 1 157	9. 6 7 8
Ba4 4_ 55	R	. 9 90 3	ug L /	. 99010 3	. 1 02 7	. 69 08
B e _13 3 0	R	- . 01 2 8	ug L /	. 0 20 32	. 2 311	- . 1 82 8

ICSA

eh Mamt oe :K6 - 10 02 101   eh Ml eisi R vo 1n 033 ,
ayl sAm nt :N T NA
cq u iDa er: t 1 2/2/2 40 3 : 2P31 7 M   Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
Ca _3 5 8	R	4 7 800,	ug L /	6 32 ,	. 1 320	9 8800,
C 6 22 5	A	. 61 2 1	ug L /	. 0 0 5255	4.4 20	4 . 2 85
C 622 o 8	A	- . 9 2 2	ug L /	. 6 02 5 8	9. 9 1 7	. 0 2 5 8
C 6 2 r77	A	- .6 4 60 3	ug L /	. 40 3 2 3	.96 6	. 6 0 3 0
C u _2 3	A	- .94 2 5	ug L /	. 6 4 9 0 3	. 621 5	6. 3 1 7
F e992 5	R	1 18 00,	ug L /	6 2 02 ,	. 1 1 20	4 9 25 00,
K_ 664_ 7	R	.92 1 7	ug L /	6.64 8	.44 2 5	4.1 2 2
L6i _ 0 7	R	. 1 2 3 8	ug L /	. 032 38	.6 2 35	.1 2 5 0
g 2M0 5	A	4 2 5 080,	ug L /	.1 1 8 5	. 4 0 0 0 0 8	6 8 850,
62M 57n	R	- . 0 1 8 5 5	ug L /	. 6 902 3	.99 3 0	.9 3 80
2M0o0	A	. 4 5 3	ug L /	.9 0 2 22	6. 1 0 8	. 4 85
a 9 _ N8 8 5	R	6 . 1 1 5	ug L /	. 49 5	.696 8	9.1 18
i 62 3N	A	. 669 0 8	ug L /	. 6 40 7	9. 1 3	- . 1 2 7 7
P b 22 03	A	- . 660 8	ug L /	. 9 2 3	4 .1 1 3	- . 2 5 33
S b 6 2 0 8	A	.696 2	ug L /	. 42 7 8	.1 03 3	. 4 700
S 96 1_ 0	A	. 9 32 3	ug L /	. 96 2 2	. 9 0 8	. 4 50
S i 62 1 5	R	9. 1 2	ug L /	.49 60 3	. 2 5 5 5	. 2 2 87
S 991_ 8n	A	.94 5 0	ug L /	. 9 02 50	4. 6 31	. 3 1 22
S 4 _21 r 5	R W	. 9 5 7	ug L /	. 94 60 0	. 9 0 5 5 5	41 5 ,8
T i49_33	A	. 99 7	ug L /	. 9 0 0 8 55	4.9 77	49.9 5
T 9 1_ 0 8	A	. 61 28	ug L /	.6 1 2 7	.4 8 0	- . 1 38
V_ 9 42 2	A	- . 91 2 5	ug L /	. 96 0 03 1	. 0 3 0 5 8	4. 92 7
Z 6 2 02 n	A	.4 9 0 7 8	ug L /	. 6 0 0 2 57	. 1 3 0	.6 4 3
Y_ 6 _3 00	R	6 93 20 ,C	Ss / t	9.19 72	.49 60 73	6 93 20 ,
Y_ 4 22 3	A	. 7 28 ,0 C	Ss / t	. 4 3 22	. 4 96 0 7 5	. 7 28 ,0
Y_ 6 _3 00	A	6 62 7 2 0 ,C	Ss / t	.99 5	. 4 90 0 3 0	6 62 7 2 0,

ICSAB

eh Mamt oe :K6 - 10 02 101   eh Ml eisi R vo 1n 033 ,
ayl sAm nt :N T NA
cq u iDa er: t 1 2/2/2 40 3 : 2P 18 M   Samp lTyp e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 08	A	. 2 08	ug L /	. 40 0 5	. 0 0 5 8	6 3 3 7,
96 _3A1	R	49 0 00,	ug L /	611 0,	. 2 3 7 8	6 9 4 2 00,
s9 1_A1 8	A	9 . 9 7 8	ug L /	.6 4 7	. 1 1 7 0	. 921 8
u4 2A2 7	A	49 . 2 0	ug L /	. 0 353 0	. 0 0 38	41 8 ,5
B_ 92 0 8	A	4 9. 7 5	ug L /	. 0 22 0	. 44 20 5	4 6.9 3
Ba4 4_ 55	R	4 .6 1 8	ug L /	. 61 3 3	. 02 380	6 3 1 2 0,
B e _3 3 0	R	469.9	ug L /	. 4 1 8	. 6 03 80	8 5 76,
Ca _3 5 8	R	4 9 5 800,	ug L /	921 8,	.4 69 0 7	9 5 800,
C 6 22 5	A	9 . 28 8	ug L /	. 4 0 3 02	. 4 0 0 3 0 7	41 0 6,
C 622 o 8	A	4 .9 3 8	ug L /	. 64 0 2 2	. 9 0 1 5 5	469 ,
C 6 2 r77	A	4 . 1 5 5	ug L /	. 46 03 7	. 6 9 0 7 7	9 51 8,
C u _2 3	A	4 .9 2 8	ug L /	. 6 3 50	. 0 3 27	6 7 32 ,
F e992 5	R	1 3 8 00,	ug L /	66 . 3 7	. 6 0 3 1 3	35 3 800,
K_ 664_ 7	R	4 2 0 00,	ug L /	9.9 8	.9 0 3 0 7	6 41 08,
L6i _ 0 7	R	. 35 17	ug L /	.69 3 2	.6 0 8 7 5	7 50,
g 2M0 5	A	44 9 3 00,	ug L /	64 . 3 3	. 449 0	66 99 0,
62M 57n	R	4 . 35 0	ug L /	. 9 32	. 9 02 33	6 964 ,
2M0o0	A	4 6. 52	ug L /	6. 4 3 3	. 91 3 0	. 3 71
a 9 _ N8 8 5	R	21 0 0,	ug L /	9 .6 8 5	.46 0 38	49 56,
i 62 3N	A	69.6 8	ug L /	. 21 20	. 4 02 1 7	6 4 0 ,
P b 22 03	A	4 . 2 0 7	ug L /	. 99 03 5	.9496 0	- 6. 1 1 8
S b 6 2 0 8	A	. 538 5	ug L /	. 4 0 1 8 5	. 44 0 8	4.92 0
S 96 1_ 0	A	4 . 3 8	ug L /	. 32 85	.4 9 7 8	. 11 35
S i 62 1 5	R F	. 21 2 7	ug L /	. 9 1 5 5	. 942 5	.9 1 8
S 991_ 8n	A	4 4. 5 0	ug L /	.6 2 77	. 9 0 5 87	66.6

ICSAB

eh lalmt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T NA

cq u iDAa er: t 12/2/240 3 : 2P: 18 M Samp lType e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
S 4 _21 r 5	R	4. 1 52	ug L /	4. 69 1	. 01 80 8	05 350,
T i49_33	A	46 .6 0	ug L /	. 02 30 8	. 00 105	1 72 0,
T 9 1_ 0 8	A	6.9 8 5	ug L /	. 900 857	. 00 030	9. 2 0 5
V_ 9 42 2	A	4 . 57 7	ug L /	.9 4 0 0 5	. 9 60 7	4 827,
Z 6 2 02 n	A	. 288 8	ug L /	. 9 5 87	.66 0 08	2 01 5,
Y_ 6 _3 00	R	6 948 3 ,C	Ss / t	.11 021	. 03 20 38	6 948 3 ,
Y_ 4 22 3	A	. 7 777,7 C	Ss / t	4. 4 9 02	. 90 01 51 8	. 7 777,7
Y_ 6 _3 00	A	2 75 08,C	Ss / t	. 115 3 5	. 609 85	2 75 08,

CCV

eh lalmt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T NA

cq u iDAa er: t 12/2/240 3 4 :P2 1 M Samp lType e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 08	A	49 . 2 5	ug L /	. 21 00	.4 64 02	4 1 2 06,
96 _3A1	R	46 2 0,	ug L /	6.11 5	.9 0 3 55	6 61 1 0,
s9 1_A18	A	4 9. 8 8	ug L /	.99 0 1 8	. 02 20 5	.6 25
u4 2A2 7	A	49 .9 1	ug L /	4. 6 0 5	. 4 02 8 5	2 000,
B_ 92 0 8	A	496. 1	ug L /	. 9 01 2	. 4 02 0 08	. 05 87
Ba4 4_ 55	R	4 . 88	ug L /	. 4 3 73	. 6 0 71 7	9 3 7 06,
B e _3 3 0	R	4 . 288	ug L /	4. 2 88	. 40 87 8	9 2 3 08,
Ca _3 5 8	R	49 2 0,	ug L /	9 .96 3	. 0 225	2 70 0,
C 06 22 5	A	49 .6 3	ug L /	. 02 80 5	. 66 0 2	6 6 3 ,8
C 622 o 8	A	49 . 7 8	ug L /	. 9 090 27	. 9 041 0 5	61 28,
C 6 2 r77	A	49 . 32	ug L /	. 9 2 5 5	. 6 025	96 27 ,
C u _2 37	A	49 .4 5	ug L /	. 9 150	. 1 10 3	66 8 ,8
F e 992 5	R	49 2 0,	ug L /	6.41	.9 40 13	3 000,
K_ 664_ 7	R	1 2 21 0,	ug L /	9 . 91 1	. 4 0 7 70	9 0 0,
L6i _ 707	R	49 . 50	ug L /	4. 88	.9 0 85 8	27 33 ,
g 2M02 5	A	9 2 70,	ug L /	. 30 2	. 02 3 55	21 85
62M 57n	R	4 . 88 8	ug L /	. 31 1 7	.64 0 88	4 7 2 ,
2M2o0	A	49 . 5 8	ug L /	. 3 32 3	.6 0 20	9 .9 18
a 9 _ 15 85	R	41 2 1 0,	ug L /	94.94	. 6 0 71 5	9 30 2 0,
i 62 13N	A	49 . 73	ug L /	. 010 557	. 00 03 13	41 01 ,
P b 22 03	A	. 600 0	ug L /	. 40 0 5 87	. 010 70	44 . 85
S b 6 2 0 8	A	49 . 2 2	ug L /	. 021 55	. 4 0 0 3 77	9.4 8
S 96 1_ 0	A	4 . 887	ug L /	.6 7 2 8	. 1 257	9 . 0 7 8
S i 62 1 5	R	61 2 06,	ug L /	.1 03 8	. 02 803	9 0 0 0,
S 991_ 8n	A	.6 205	ug L /	.44 0 3 0	. 0 0 18 8 5	. 2 017
S 4 _21 r 5	R	49 . 21	ug L /	. 518 8	. 1 1 85	05 06,
T i49_33	A	4 9. 8 5	ug L /	. 4 0 8	. 64 03 7	2 0 50 3,
T 9 1_ 0 8	A	. 251	ug L /	. 990 37	. 4 40 7	. 2 015
V_ 9 42 2	A	49 . 1 1	ug L /	. 6 08	. 6 03 77	1 0 00,
Z 6 2 02 n	A	49 . 1 2	ug L /	. 1 3 37	. 9 02 7 5	1 2 2 8,
Y_ 6 _3 00	R	4 3 7 70,C	Ss / t	6. 2 257	. 40 07 0 0 8	4 3 7 70,
Y_ 4 22 3	A	9.6 837 , C	Ss / t	.4 280 8	. 96 0 0 3 2 5	9.6 837 ,
Y_ 6 _3 00	A	3 0 7270,C	Ss / t	4 26 ,8	.69 0 2 8	3 0 7270,

CCB

eh lalmt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T NA

cq u iDAa er: t 12/2/240 3 :6 B 70 M Samp lType e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 08	A	- . 00 0 2 80	ug L /	. 66 0 0 1 7	. 850	. 3 37 8
96 _3A1	R	-4.4 85	ug L /	. 2 21 0	49. 2 8	. 6 32 5
s9 1_A18	A	.4 42 0	ug L /	. 0 717 8	. 32 3 7	. 1 2 0 8
u4 2A2 7	A	.69 0 5 8	ug L /	. 0 01 7	. 9 5	. 253 7

CCB

eh Madmt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T A

cq u iDate er: t 1 2/2/2 40 3 :6 B 70 M Samp lTyep e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
B_ 92 0 8	A	. 1 15	ug L /	. 010 2 8 8	. 94 1	. 44 27
Ba4 4_ 55	R	- . 0 32 8	ug L /	. 0 0 221	6. 1 27	9. 5 37
B e _13 3 0	R	- . 0 0 725	ug L /	. 9 010 3 0	. 662 5	- . 4 0 2
Ca _13 5 8	R	-4. 9 1 5	ug L /	6. 6 1 7	4 . 6 8	- . 91 5 8
C 6 22 5	A	. 010 2 5 5	ug L /	. 6 010 7	. 1 1 5 8	- . 9 4 0 7 7
C 6 22 o 8	A	- . 96 0 2	ug L /	. 4 0 73	4. 6 3	. 21 1 7
C 6 2 r77	A	- . 49 9 0 7	ug L /	. 9 0 7 5	4 . 1 1 8	4. 64 0
C u _3 2 37	A	- . 02 3 8 5	ug L /	. 9 03 53	6. 1 2 7	. 153 8
F e 99 2 5	R	- . 4 4 02 5	ug L /	. 42 7 5	1 1 22 ,	. 3 7 03
K_ 664_ 7	R	6. 2 0 5	ug L /	4. 3 35	. 6 32	- . 6 77 8
L 6i _ 07 7	R	4. 1 0 5	ug L /	. 9 0 3 2 5	9. 6 15	. 3 18
g 2M0 5	A	. 6 4 0 5 8	ug L /	. 6 60 2	4. 2 38	- . 4 32 7
6 2M 57n	R	. 464 03	ug L /	. 9 60 3	. 9 55 8	. 9 4 3 2
2M0o 0	A	4. 99 7	ug L /	. 49 1	. 99 22	. 2 0 0 5
a 9 _ 15 8 5	R	-4. 6 15	ug L /	. 1 1 28	9. 3 1 7	. 4 3 73
i 6 2 13N	A	- . 0 0 5	ug L /	. 60 27	. 1 10 2	- . 91 32
P b 22 03	A	. 4 40 0	ug L /	. 46 03 2	46. 2 7	- . 9 2 2 8
S b 6 2 0 8	A	. 6 0 01 5	ug L /	. 6 0 76	. 6 11	. 6 0 87
S 9 6 1_ 0	A	. 6 3 22	ug L /	. 6 0 177	. 99 2 0	. 62 2 3
S i 6 2 1 5	R	- . 32 21	ug L /	. 3 1 8	9 . 87 5	9. 6 42
S 99 1_ 8n	A	- . 6 03 3 0	ug L /	. 6 0 5	9 . 92 0	. 9 9 0 3 7
S 4 _21 r 5	R	- . 49 0 2	ug L /	. 0 37 7	6. 1 1 5	- . 9 2 5 8
T i 49 _33	A	. 4 03 2 5	ug L /	. 9 4 01 3	6. 46 2	- . 5 85
T 9 1_ 0 8	A	. 64 0 1 0	ug L /	. 6 03 0 5	4 . 72 8	- . 96 90 2
V_ 9 42 2	A	- . 9 0 02	ug L /	. 0 03 0 57	. 99 2 7	-4. 557
Z 6 2 02 n	A	- . 90 2 5	ug L /	. 99 0 03 5	. 4 3 7	. 02 555
Y_ 6 _3 00	R	3 1 1 82 ,C Ss	/ t	9 . 4 8 5 8	. 42 538	3 1 1 82 ,
Y_ 4 22 3	A	9 . 02 , 5C Ss	/ t	. 96 187	. 96 0 0 857	9 . 02 , 5
Y_ 6 _3 00	A	32 32 00,C Ss	/ t	4 6. 8 8	. 46 4 00	32 32 00,

LCSWGK26ICW2

eh Madmt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T A

cq u iDate er: t 1 2/2/2 40 43 46 P M Samp lTyep e : U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	49. 9 5	ug L /	. 4 0 328	. 9 4 0 73	449 ,
96 _3A1	R	9 2 0 ,8	ug L /	. 9 0 3 35	. 44 0 0 5 8	2 7 87
s9 1_A1 8	A	. 1 003	ug L /	. 4 4 0 2 3	. 4 0 2 13	. 321 3
u4 2A2 7	A	. 6 4 0 18	ug L /	. 44 6 0 2	6. 4 0	. 441 8
B_ 92 0 8	A	49 . 7 5	ug L /	. 0 10 0	. 4 90 0	. 6 6 8
Ba4 4_ 55	R	9 9 7,	ug L /	. 9 7 8	. 9 90 03	1 21 00,
B e _13 3 0	R	. 6 8	ug L /	. 94 2 5	. 69 01 5	9 32 8,
Ca _13 5 8	R	64 2 3,	ug L /	. 92 21	. 96 0 38	649 5 ,
C 6 22 5	A	. 2 57 5	ug L /	. 94 0	. 4 0 2 6	3 31 5,
C 6 22 o 8	A	. 4 6 5	ug L /	. 1 63	. 9 02 75	9 1 11 ,
C 6 2 r77	A	9 . 1 1 8	ug L /	. 6 60 2 7	. 6 013 8	96 2 1 ,
C u _3 2 37	A	49. 2 3	ug L /	. 0 037	. 03 2 3 8	4 96 3 ,
F e 99 2 5	R	61 0 3,	ug L /	. 6 7 03	. 4 0 37 3	32 33 ,
K_ 664_ 7	R	9 64 8,	ug L /	6. 6 51	. 90 57	1 28 ,8
L 6i _ 07 7	R	. 1 5 5 8	ug L /	. 60 1 7 5	. 0 3 8	4 7 5,8
g 2M0 5	A	15 0,	ug L /	. 1 3 2	. 02 1 5 8	9 . 10 8
6 2M 57n	R	. 60 5	ug L /	4. 6 3 3	. 0 1 87 8	4 7 80,
2M0o 0	A	. 4 3 0 5	ug L /	. 61 2 1	. 4 01 3 0	9. 55 5
a 9 _ 15 8 5	R	71 85,	ug L /	6. 52 8	. 60 27 3	91 8 03,
i 6 2 13N	A	. 4 6 5	ug L /	. 964	. 603 88	1 01 7,
P b 22 03	A	. 1 10 8	ug L /	. 02 63	. 4 02 5 8	9. 8 38
S b 6 2 0 8	A	. 1 003	ug L /	. 9 0 2 7 5	. 9 0 2 6	. 63 7 8

LCSWGK26ICW2

eh lamt ce:K16 - 10 02 10 eh l teis R vo 1n 03,
ayl sam net:N T N
cqu iDa er: t 12/2/24 04 3 46 P M Samp lTp e:Uk w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
S 96 1_ 0	A	.1 10 0	ug L /	. 4 85	. 1 387	. 2 02 7
S i 62 1 5	R	500 ,5	ug L /	. 1 02 7	. 02 025	9 3 7,
S 991_ 8n	A	4. 1 5 3	ug L /	.446 0 2	. 6 0 0 87 5	4. 21 3
S 4 _21 r 5	R	6. 1 5 7	ug L /	. 6 3 5 8	.69 0 0 5	21 5 00,
T i49_33	A	494. 5	ug L /	. 44 3	. 02 17 8	9 2 0 7,
T 9 1_ 0 8	A	.9 1 03	ug L /	.4 0 321	.4 01 58	4 .6 1 5
V_ 9 42 2	A	49 . 1 5	ug L /	. 0 350 8	. 0 027	4 03 0,
Z 6 2 02 n	A	49 . 7 7	ug L /	. 911 5	. 4 02 2	4 3 ,
Y_ 6 _3 00	R	3 733 ,7C	Ss / t	9. 48 1 5	. 0 0 538	3 733 ,7
Y_ 4 22 3	A	. 8887 ,C	Ss / t	. 6 7022	. 99060 71	. 8887 ,
Y_ 6 _3 00	A	68 0 50,C	Ss / t	4 . 57 0 5	. 4 010 1 7 7	68 0 50,

PBWGK26ICW2

eh lamt ce:K16 - 10 02 10 eh l teis R vo 1n 03,
ayl sam net:N T N
cqu iDa er: t 12/2/24 04 46 : P 1 5 M Samp lTp e:Uk w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _2A 03	A	-. 010 7 08	ug L /	. 40 77	996.6	.4 3 88
96 _3A1	R	-9.4 1 5	ug L /	.6 9 8 8	9 .941	- .6 6 3 3
s9 1_A1 8	A	. 01010 5	ug L /	.69 0 85	6 885	.44 40 2
u4 2A2 7	A	-. 40 85	ug L /	. 90 67	4. 2 7 0	. 61 53
B_ 92 0 8	A	. 4 2 01	ug L /	. 0 650	4.6 2 5	.666 7
Ba4 4_ 55	R	-. 0 3 57	ug L /	. 0211	9. 6 28	9. 51 8
B e_3 3 0	R	-. 0 3 85	ug L /	. 0010 087	. 4 3 0	- . 1 2 32
Ca _3 5 8	R	-. 31 1 8	ug L /	. 0 7555	. 2 3 7 5	- . 1 31 0
C 6 22 5	A	-. 6 0 03 10	ug L /	. 9 0910 2	. 6 35 5	- .6 6 7
C 622 o 8	A	-. 02217	ug L /	. 6 02 5	4. 4 3	. 1 1 80
C 6 2 i77	A	. 9 0 27	ug L /	. 49900 8	. 2 5 5	. 49 7 8
Cu _2 37	A	. 64007 7	ug L /	. 4 03 3 8	449.6	.611 5
F e992 5	R	-. 9 57	ug L /	. 2 321	4 . 9 0 5	. 21 1 0
K_ 664_ 7	R	6.6 2 0	ug L /	. 402 75	. 6 03	- . 77 03
L 6i _ 7 7	R	4. 2 85	ug L /	. 6 3 7	. 3212	4 . 1 22
g 2M2 5	A	. 31 1 0	ug L /	. 31 5	.1 10 3	- . 642 8
62M 57n	R	. 902 0	ug L /	. 010 0 58	. 8765	. 53
2M2o0	A	. 41 0 8	ug L /	.6 0 13	6 . 4 02	.91 2 2
a 9 _ N5 8 5	R	4. 1 0 8	ug L /	.446 0 1	. 6 31 8	. 3827
i 62 3N	A	-. 01 55	ug L /	. 4 4011	.6 3 15	- . 91 2 3
P b 22 03	A	-. 010 255	ug L /	.4 4 0 18	931 ,	- . 9 3 0 3
S b 6 2 0 8	A	. 4 0 725	ug L /	. 41 5	4.9 5	. 60 765
S 96 1_ 0	A	.646	ug L /	.6 9 02 7	. 63 28	.9 1 55
S i 62 1 5	R	. 2 030	ug L /	. 3 21	4. 1 88	4 . 287
S 991_ 8n	A	-. 96 10 0	ug L /	. 02 3 57	21 1 5,	. 91 0 7
S 4 _21 r 5	R	-. 402 2 8	ug L /	. 00 837	.4 3 28	- . 9 1 0 7
T i49_33	A	. 9662	ug L /	. 40030 7	. 1 2 7	- . 68 8
T 9 1_ 0 8	A	. 644001	ug L /	. 460 7	. 2 17 1	- . 1 21 7
V_ 9 42 2	A	-. 6 60 5 8	ug L /	. 4 00 28 8	4 .1 28	- .6 42 8
Z 6 2 02 n	A	.4 90 3	ug L /	. 90 57	6. 3 57	. 69 7
Y_ 6 _3 00	R	93 283 ,C	Ss / t	.1 7 23	.46 6 1 5	93 283 ,
Y_ 4 22 3	A	9 .4 07 ,5 C	Ss / t	. 192 23	. 4 0 3 85	9 .4 07 ,5
Y_ 6 _3 00	A	321 2 6,C	Ss / t	6 62 18	. 6 4 38	321 2 6,

SG9180-011

eh lamt ce:K16 - 10 02 10 eh l teis R vo 1n 03,
ayl sam net:N T N
cqu iDa er: t 12/2/24 03 : P 6 25 M Samp lTp e:Uk w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _2A 03	A	-. 4 0 0223	ug L /	. 6 90 2	.93 85	- .41 7 8

SG9180-011

eh lamt ce:K6 - 10 02 10 eh l teis R vo 1n 03,
ayl sAm n et:N T N
cquiDa er: t 12/2/2403: P.525 M Samp IType: Uk w non n

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
96 _3A1	R	.1 03	ugL	/	. 2 03	. 112 7	4 .92 7
s9 1_A18	A	. 41 2 5	ugL	/	.6 01 6	49. 9 3	.6 4 0 8 8
u4 2A2 7	A	. 251	ugL	/	. 1 2 0	. 2 3 0	. 15 6
B_ 92 0 8	A	.6 3 80	ugL	/	. 4 60 8	. 03 185	4 . 61 8
Ba4 4_ 55	R	6. 6 3 1	ugL	/	. 4 00 7 0	. 02 025	692 8,
B e _3 3 0	R	- . 4 0 0 10	ugL	/	. 6 90 2 5	6 . 2 0 7	9.4 2 8
Ca _3 5 8	RW	4 5703	ugL	/	9 . 2 2 8	.6 40 1 5	9 876,
C 6 22 5	A	. 02 0 8	ugL	/	. 40900 25	. 62 57	.9 1 3 8
C 622 o 8	A	6. 9 2 5	ugL	/	. 44 90 1	. 0 0 0	.4 2 2
C 6 2 i77	A	. 4 0 25 3	ugL	/	. 9 0 0 22 3	. 9 7 5	. 9 5 5
Cu _3 7	A	. 1 0 8	ugL	/	.4 4 0 0 7	9. 3 3 7	6.4 2 8
F e99 2 5	R	44 2 0 ,	ugL	/	. 11 2 0	. 4 0 5 7 8	6 4 2 3 ,
K_ 664_ 7	R	9 4 25 ,	ugL	/	.6 7 2 3	. 90 2 8	9 4 7 2 ,
L6i _ 7 7	R	.9 72 0	ugL	/	. 64 0 3	. 1 2 2	9 .6 3 1
g 2M2 5	A	6 69 1 ,	ugL	/	6. 6 2 5	.4 0 3 0 5	4 1 0 ,
62M 57n	RW	4 2 3 ,5	ugL	/	4. 2 2 7	. 1 0 3 5	3 7 2 0,
2M2o0	A	- . 0 2 38	ugL	/	. 0 0 0 0 6 5 0 0	. 9 0 0 3 2 2	. 6 0 0
a 9 _ N5 8 5	RW	11 1 0 00,	ugL	/	4 . 1 8 8	. 60 3 0 8	6 6 2 7 0 0,
i 62 3N	A	. 12 1 5	ugL	/	. 6 0 2 5 3	. 2 0 6 5	4. 2 2 8
P b 22 0 3	A	.4 0 1 5 8	ugL	/	. 9 0 2 2 2	64.6 8	- .49 2 7
S b 6 2 0 8	A	. 1 0 2 7	ugL	/	. 96 1	6.4 1	. 60 38 0
S 96 1_ 0	A	- . 9 60 1 7	ugL	/	.4 9 4 2	. 3 5	.6 1 7 7
S i 62 1 5	R	4 4 1 7 ,	ugL	/	49. 0 5	. 4 1 0 0	6 3 7 ,8
S 99 1_ 8n	A	. 9 0 3 0 8	ugL	/	.4 60 7 7	.1 2 2 2	. 1 1 8 7
S 4 _2 r 5	R	.2 1 7 7	ugL	/	.9 2 2 0	. 1 0 7 5	6 2 7 2 0,
T i49_33	A	. 4 2 8	ugL	/	. 0 1 3 8	. 6 8 2 8	.4 3 2 0
T 9 1_ 0 8	A	. 1 3 8 8	ugL	/	. 0 3 1 5 7	.6 1 8 8	- . 4 2 2 5
V_ 9 42 2	A	.49 0 0 8	ugL	/	. 9 0 0 3 2 5	9. 1 0 0	- . 9 1 5 3
Z 6 2 02 n	A	4. 4 2 5	ugL	/	. 6 0 0 3 3 5	. 4 9 0 8	6 . 2 3 8
Y_ 6 _3 00	R	643 7 ,5	C Ss	/ t	. 6 3 1 8 3	. 1 1 0 3	643 7 ,5
Y_ 4 22 3	A	49 . 8 1 ,5	C Ss	/ t	. 2 0 2 5 8	. 4 0 2 2 2 8	49 . 8 1 ,5
Y_ 6 _3 00	A	94 2 8 8,	C Ss	/ t	1. 7 0 2 ,8	. 9 0 5 2 8	94 2 8 8,

SG8865-001

eh lamt ce:K6 - 10 02 10 eh l teis R vo 1n 03,
ayl sAm n et:N T N
cquiDa er: t 12/2/2403: P.525 7 M Samp IType: Uk w non n

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
g _2A 0 3	A	4.4 8 7	ugL	/	. 60 6 7	. 11 3	. 6 5 8
96 _3A1	R	1 3 7	ugL	/	.1 2 5 5	. 11 5 8	4 . 3 1 1
s9 1_A18	A	- 9. 2 88	ugL	/	.4 2 1 8	. 1 7 88	. 4 0 2 2 7
u4 2A2 7	A	. 6 7 3 1	ugL	/	9. 9 2 1	96. 3 5	. 2 7 6
B_ 92 0 8	A	469 3 ,	ugL	/	. 2 5 7	4.4 9 1	. 1 7 0 3
Ba4 4_ 55	R	9 . 2 7 3	ugL	/	. 7 8 5 7	. 6 1 8	6.9 2 1
B e _3 3 0	R	-6. 6 3 8	ugL	/	. 0 2 1 0 8	. 3 3 1 0	-9. 6 8 8
Ca _3 5 8	R	2252 00,	ugL	/	6 6 0 8 ,	. 6 1 1 5	2 2 2 2 0,
C 6 22 5	A	.4 6 0 3 8	ugL	/	. 4 2 1 2	49 .4 0	- .9 4 0 7 8
C 622 o 8	A	- . 4 5 6	ugL	/	6.4 7 8	.11 7 7	. 2 1 1 7
C 6 2 i77	A	. 6 3 3 0	ugL	/	9. 9 0 5	. 2 7 0 7	. 9 2 5 3
Cu _3 7	A	- . 4 7 5 5	ugL	/	6. 2 0 7	4 . 3 5 5	6. 8 5
F e99 2 5	R	1 1 0 ,8	ugL	/	96. 1 7	9. 1 3 3	9 .4 2 8
K_ 664_ 7	R	4 2 27 00,	ugL	/	4 .9 5 0	. 66 0 2	6 9 8 8
L6i _ 7 7	R	446. 5	ugL	/	. 4 0 8	.99 7	6.9 1 0
g 2M2 5	A	96 1 1 00,	ugL	/	1 3 85 0,	4.4 1 1	643 1 ,
62M 57n	R	9. 2 1 8	ugL	/	4. 9 5 7	. 9 2 0 1	. 4 1 7 7
2M2o0	A	- . 1 0 7 8	ugL	/	. 1 1 8 5	. 1 1 7 7	6. 5 5 7
a 9 _ N5 8 5	RF	411 00,000,	ugL	/	44 2 8 0,	. 0 2 7 3 0	46 5 7 0 0,

SG8865-001

eh Mathmt ce :K6 - 10 02 101 eh Mdl teisi R vo 1n 033 ,
ayl sAam n et :N T NA
cq u iDate er: t 1 2/2/2 40 3 : P.525 7 M Samp lTyep e : U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
i 62 13N	A	. 2 727	ug/L	. 533 5	9. 1 2 5	. 4 0 3 5
P b 22 03	A	. 1 15 8	ug/L	6.61 5	9.6 0	- .6 42 1
S b 6 2 0 8	A	.6 3 7 0	ug/L	9 . 91 7	44. 2 2	. 0 7027
S 966 1 0	A	. 61 7	ug/L	9. 3 55	9. 7 57	. 1 15 8
S i 62 1 5	R	59 ,8	ug/L	. 3 32 7	. 66 0 0 1 7	9.9 0
S 991 8n	A	. 6 25	ug/L	. 1 865	4. 3 5 7	. 1 0 37
S 4 21 r 5	R	9 8 85,	ug/L	. 3835	. 94 09 0 2	1 7 770,
T i49 33	A	- . 5 57	ug/L	4. 3 38	. 1 82 8	- . 92 3 3
T 9 1 0 8	A	- .4 2 80	ug/L	. 353 8	.1 88	- . 91 3 5
V 9 42 2	A	4. 0 35	ug/L	4. 2 87	.1 0 5 8	. 9 40 2
Z 6 2 02 n	A	. 2 32 0	ug/L	9. 4 17	4 . 1 88	. 1 37 7
Y 6 3 00	R	93172 ,C	Ss / t	. 924 0 8	. 60 00 25 70	93172 ,
Y 4 22 3	A	49 . 8 ,50 C	Ss / t	. 24 02 7	. 603 3 8	49 . 8 ,50
Y 6 3 00	A	9 2 1 0 70,C	Ss / t	6 42 8 7	.9 0 22 3 8	9 2 1 0 70,

SG8865-001L

eh Mathmt ce :K6 - 10 02 101 eh Mdl teisi R vo 1n 033 ,
ayl sAam n et :N T NA
cq u iDate er: t 1 2/2/2 10 3 : 8001 M Samp lTyep e : U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g 3A 03	A	- 9. 9 7 8	ug/L	. 4 725	9.4 1 8	- . 5 57 5
96 3A1	R	1 2 3 7	ug/L	6 2 3 ,	99.9 1	.49 5
s9 1 A1 8	A	- .9 35	ug/L	9.62 7	.1 1 8 7	. 02 32 5
u4 2A2 7	A	- 9.4 0	ug/L	4.11 8	4.9 0	.4 0 875
B 92 0 8	A	9 1 38	ug/L	.11 8	.9 5 35	. 1 321
Ba4 4 55	R	44. 77	ug/L	6.6 2 1	9.4 5 3	4. 83 5
B e 3 3 0	R	- 4.46 3	ug/L	4. 6 2 5	. 1 2 3 8	- . 1 211
Ca 3 5 8	R	221 080,	ug/L	1 21 5	. 4 0 5 8	9 6 3 ,
C 6 22 5	A	-6. 155	ug/L	4. 328	. 3 77	- . 9 6
C 622 o 8	A	-4 .66 3	ug/L	.91 0 5	. 2 50 7	.966
C 6 2 r77	A	- . 3 2 8	ug/L	. 2 7 55	. 88 7	. 9 2 7 8
C u 32 37	A	. 422 5	ug/L	9. 93 5	.6 75	. 91 5
F e992 5	R	- .4 87	ug/L	. 25 35	6. 4 10	.9 2 7
K 664 7	R	9 6 800,	ug/L	4 6 4 0 ,	. 2 3 8	.4 577
L6i 707	R	64 1 ,	ug/L	6. 22 2	9.44	46. 5 8
g 2M0 5	A	66 9 5 00,	ug/L	6. 21 5	. 0 02 2 5	4 .6 55
62M 57n	R	6.1 01	ug/L	9. 1 1 0	. 1 18	. 1 0 8
2M2o 0	A	-6 .6 77	ug/L	.64 0	. 1 57	. 5 857
a 9 N 8 5	R	53 ,000,	ug/L	3 15 2 0,	.6 0 5 87	64 2 5 0,
i 62 13N	A	- 9. 42 2	ug/L	9. 2 3 7	.1 00 5	- . 9 2 7
P b 22 03	A	-6 . 857	ug/L	.1 221	.1 7 6	- . 64 32
S b 6 2 0 8	A	6 .42 8	ug/L	6. 2 2 0	9. 6 2	. 6 90 28
S 966 1 0	A	- 6 . 2 3 0	ug/L	6 .92 3	.1 003	.4 4 1
S i 62 1 5	R	4 . 01 5	ug/L	6 .4 15	.6 3 8	. 33 35
S 991 8n	A	6. 527	ug/L	.4 88	. 33 21	. 4 1 7
S 4 21 r 5	R	63 70 ,	ug/L	. 111 7	. 031 0 5	41 15 ,
T i49 33	A	-4 .9 3 3	ug/L	9. 2 88	6 . 18	- .962 7
T 9 1 0 8	A	6. 6 5	ug/L	6 .4 7	9 . 2 1 8	- . 4 1 2
V 9 42 2	A	-66. 8	ug/L	. 9 21 5	. 7 6 5	-6. 4 3 7
Z 6 2 02 n	A	. 1 3 27	ug/L	. 5 85 8	4 6.9 2	. 0 32 7
Y 6 3 00	R	9 3 1 8 ,5C	Ss / t	9.1 72 7	.469 6 3	9 3 1 8 ,5
Y 4 22 3	A	. 8 383 C	Ss / t	. 1 70 5	. 9 04 1 5	. 8 383
Y 6 3 00	A	9 13 0 03,C	Ss / t	9 .3 20 , 8	. 1 2 56	9 13 0 03,

SG8865-001A

eh Mathmt ce :K6 - 10 02 101 eh Mdl teisi R vo 1n 033 ,
ayl sAam n et :N T NA

SG8865-001A

eh ldmt ce:K6 - 10 02 10 eh ldeis R vo 1n 033,
ayl sAm nt:N T N
cquiDa er: t 12/2/2 10 4 4 8 M Samp lTp e:U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g 2A 03	A	41 5 6,	ug L /	1 1 1 1 ,	. 9 17 2	6 2 8 3,
96 3A1	R	6 3 1 0,	ug L /	. 3 2 5 2	.6 2 77	4. 3 7 0
s9 1 A1 8	A	66 7 0,	ug L /	6 . 87 5	4.9 11	.9 0 5
u4 2A2 7	A	. 2 577	ug L /	6.6 9 3	4 .4 2	. 5 0 5
B 92 0 8	A	2 03 03	ug L /	. 8 8 8	4. 2 0	99.9 3
Ba4 4 55	R	91 0 3 0,	ug L /	.9 5 88	. 9 5 0	6 1 1 8 0,
B e 3 3 0	R	11 350,	ug L /	. 56 0	4. 6 7 8	4 3 0 0 3
Ca 3 5 8	R	9 101 00,	ug L /	9 2 8 5	. 91 0 0	46 3 8 0,
C 6 22 5	A	1 7 3 6,	ug L /	6 .9 1 8	.9 3 3	4 9 2 7,
C 622 o 8	A	1 7 1 50,	ug L /	6 4. 1 7	. 31 50	9 2 5,
C 6 2 i 77	A	6 41 3 0,	ug L /	61 3 3,	. 3800	4 4 9 8,
Cu 2 3 7	A	6 1 5 0,	ug L /	4 2 5,	. 6 0 0	4 9 00,
F e992 5	R	69 3 2 00,	ug L /	6 . 87 8	. 02 31 5	221 0 3,
K 664 7	R	94 7 0 8 0,	ug L /	63 1 2 ,	. 9 03 33	1 3 1 2 0,
L6i 7 7	R	1 0 77 0,	ug L /	4 . 85 5	4. 6 5 8	94 3 0 ,
g 2M2 5 A W		64 2 ,000,	ug L /	1 55 00,	. 9 2 2	4 4 1 2 ,
62M 57n	R	11 1 50,	ug L /	. 50 3	. 4 5 02	6 3 00,
2M2oo	A	1 72 0 0,	ug L /	4 . 85	4.96 7	9 . 15 3
a 9 N 5 8 5	RF	61 2 3 0,000,	ug L /	9 4 2 6,	. 0 7 8	6 0 7 6 0,
i 62 1N	A	1 7 5 0,	ug L /	6 6. 2 2	. 6 3 5 5	6. 7 0 1
P b 22 03	A	1 2 7 6,	ug L /	4 . 85 5	4.9 10	9 . 2 2 7
S b 6 2 0 8	A	1 7 1 0 0,	ug L /	4. 7 8 3	4.6 11	.1 2 70
S 96 1 0	A	6 1 33 0,	ug L /	4 9 1 ,	.6 6 8 8	. 5 8 7
S i 62 1 5	R	9 1 0 7 0,	ug L /	4 4.6 2	.9 3 3 5	.4 2 0 3
S 991 8n	A	- . 96 3	ug L /	. 1 5 7 0	1 1 2 5,	. 9 1 00
S 4 2 1 r 5	R	2 1 1 2 0,	ug L /	4 6. 2 3	. 92 1 0	4 4 2 7 0,
T i49 33	A	94 5 0,	ug L /	44 1 3,	9. 0 5 7	1 2 3 7 0,
T 9 1 0 8	A	91 5 0 3,	ug L /	1 1 7 5,	. 1 0 3 7	.1 2 1 5
V 9 42 2	A	1 5 0 8,	ug L /	1 2 2 5,	9.6 3 7	996 5 ,
Z 6 2 02 n	A	1 8 7 0,	ug L /	6 . 3 5	.494 3	9 6. 0 0
Y 6 3 00	R	43 27 0,C Ss	/ t	. 2 2 88 7	. 4 00 7 7 0	43 27 0,
Y 4 22 3	A	9 . 382 , 5C Ss	/ t	. 3 7 3 2 2	. 66 8 7	9 . 382 , 5
Y 6 3 00	A	4 2 282 0,C Ss	/ t	4 .9 3 5 2	. 02 1 1 7	4 2 282 0,

SG8865-001D

eh ldmt ce:K6 - 10 02 10 eh ldeis R vo 1n 033,
ayl sAm nt:N T N
cquiDa er: t 12/2/2 10 9 : 5 0 2 3 M Samp lTp e:U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g 2A 03	A	-9. 6 0 7	ug L /	. 6 252	.9 57 7	- .6 1 1 3
96 3A1	R	6 1 1 5,	ug L /	4 .9 0	. 1 2 1 0	. 6 3 8 8
s9 1 A1 8	A	69. 0 5	ug L /	9.6 2 0	4 . 2 8	. 40 3 8
u4 2A2 7	A	- . 3 2 75	ug L /	. 7 8 3 3	. 9 2 2 3	- .4 0 1 2 5
B 92 0 8	A	9 62 3 ,	ug L /	4 .6 3 7	4.9 1 0	6 . 1 8
Ba4 4 55	R	.9 8	ug L /	. 1 3 5 7	. 4 9 7	.6 2 00
B e 3 3 0	R	-4. 4 2	ug L /	.4 0 0 8 7	. 4 0	- . 3 7 3 8
Ca 3 5 8	R	4 4 57 00,	ug L /	6 27 ,8	.4 1 1 7	9 1 2 7 0,
C 6 22 5	A	- . 3 2 0 3	ug L /	. 60 2 5 8	.49 7	- . 1 1 8 5
C 622 o 8	A	- . 1 2 1 2	ug L /	4. 7 8 5	9.4 3 8	.6 4 9
C 6 2 i 77	A	-6. 99 7	ug L /	.9 7 2 3	6.11 5	.4 2 55
Cu 2 3 7	A	- . 3 5 0 8	ug L /	.4 1 0 3	9 . 2 1 3	. 1 8 0 0
F e992 5	R	9 . 1 57	ug L /	9 . 2 7	.6 1 0 2	9 .4 1 2
K 664 7	R	3 3 7 0 0 0,	ug L /	4 9 2 5,	.6 9 0 2 5	6 9 2 0 ,
L6i 7 7	R	4 . 7 8	ug L /	6.4 4 2	. 5 3 5	4.11 8
g 2M2 5 A		2 8 3 00,	ug L /	4 4 1 00,	.91 3 0	4 2 27 ,
62M 57n	R	. 2 10 7	ug L /	6. 00 5	.9 2 7 8	6 .44 5
2M2oo	A	. 91 0 3	ug L /	. 62 8 8	64 2 2 ,	. 1 0 3 8

SG8865-001D

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,
ayl sAm n et:N T N
cqu iDa er: t 12/2/2 10 9: 50 23 M Samp lTp e:Uk w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
a 9 _ N5 8 5 RW 9		85,000,	ug L /	4 6 5 00,	.4 1 7 8	46 7 00,
i 62 8N A		-. 25 5	ug L /	6.99	. 2 57	-. 91 1 8
P b 22 03 A		-. 222 3	ug L /	. 62 33	.1 015	-. 9 32 3
S b 6 2 0 8 A		9. 7 85	ug L /	. 3 27 8	46.69	. 6 2
S 96 1_ 0 A		.922 3	ug L /	.1 18	. 38 58	. 442 3
S i 62 15 R		4 4 0 ,8	ug L /	4 .4 73	. 11 27	9. 317
S 991_ 8n A		-.66 51	ug L /	4 . 577	.6 08 8	.99 0 12
S 4 _21 r 5 R		728 7,	ug L /	9 . 50 5	. 1 2 0 7	64 5 0,
T i49_33 A		6. 9 1 8	ug L /	. 32 37	9. 1 3 8	-.6 5 6
T 91 _ 1 0 8 A		-6. 1 2 0	ug L /	9. 42 3	.1 1 18	-. 1 3 0 5
V_ 9 42 2 A		-. 6 38 8	ug L /	. 6 7 50	9 . 4 03	-4.4 4 1
Z 6 2 02 n A		.9 3 2	ug L /	. 3 3 2	. 1 03 8	. 9 21 3
Y_ 6 _3 00 R		6 6 3 17 ,C	Ss / t	96. 2 08	. 6 902 1 1	6 6 3 17 ,
Y_ 4 22 3 A		4 . 82 5 , 5C	Ss / t	. 48 38	.44 04 8 7	4 . 82 5 , 5
Y_ 6 _3 00 A		9 29 0 1 0 0,C	Ss / t	44 . 27 0	. 4 0 15	9 29 0 1 0 0,

SG8865-001S

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,
ayl sAm n et:N T N
cqu iDa er: t 12/2/2 10 4: 15 07 M Samp lTp e:Uk w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _2A 03 A		9. 7 75	ug L /	. 91 3 5	. 1 76	4 . 4 57
96 _3A1 R		4 1 2 ,	ug L /	.9 382	. 1 17 8	.1 321
s9 1_A1 8 A		4.1 3 7	ug L /	. 23 1 0	. 4 17	. 1 222
u4 2A2 7 A		-4.4 51	ug L /	. 2 50 5	46. 4 0	-. 22 75
B_ 92 0 8 A		63 70 ,	ug L /	. 2283	. 9221	. 75 25
Ba4 4_ 55 R		4 4 22 ,	ug L /	66. 6 8	. 1 538	6 6 6 ,
B e _3 30 R		9. 885	ug L /	. 5 3	. 9 52	9. 3 7 0
Ca _3 58 R		557 00,	ug L /	1 5000,	.69 2 2	662 3 0,
C 6 22 5 A		. 30 5 8	ug L /	6 . 575	. 21 6	. 72 2
C 622 o 8 A		4.9 58	ug L /	6.1 2 1	. 21 55	44. 9 8
C 6 2 i77 A		. 3 70 8	ug L /	. 22 3 5	6. 2 7	.6 0 5
Cu _2 37 A		4 . 27 1	ug L /	4. 1 2 8	. 43 2	6 .1 1 2
F e99 2 5 R		31 2 ,	ug L /	9.1 8	6. 46 0	4. 22 3
K_ 664_ 7 R		46 9 7 00,	ug L /	4 1 2 3,	. 0 188	64 7 5,
L6i _ 7 7 R		61 5 ,8	ug L /	64. 9 8	4. 1 3 7	4 9.6 2
g 2M2 5 A		87 500,	ug L /	9 1 03 00,	. 21 75	2 18 7,
62M 57n R		4 30 ,	ug L /	6 .9 0 5	4.6 37	4 .6 0 8
2M2o0 A		4 .42 0	ug L /	. 0 28 5	. 33 3 8	. 1 8 5
a 9 _ N5 8 5 RF		11 3 03 000,	ug L /	9 27 70,	.64 0 12	44 5 60,
i 62 8N A		9 .4 5 5	ug L /	4 .4 8	4.9 2 3	. 2 32 0
P b 22 03 A		9. 5 57	ug L /	6 . 2 03	64.9 1	-. 1 21 3
S b 6 2 0 8 A		.1 6 50	ug L /	6 . 4 0 8	4 . 0 55	. 1 2 50
S 96 1_ 0 A		9 .1 57	ug L /	. 5 28 8	9. 2 7 8	. 222 8
S i 62 15 R		6 1 3 65,	ug L /	. 21 27	. 1 32 8	6. 2 8 5
S 991_ 8n A		6 .9 25	ug L /	4.4 5	.4 2 73	. 5 60
S 4 _21 r 5 R		1 0 56 5,	ug L /	6. 2 3 1	. 223 8	21 11 0,
T i49_33 A		9 . 2 31	ug L /	. 1 52 3	. 49 55	69 .6 8
T 91 _ 1 0 8 A		.94 38	ug L /	. 6 5 8	.91 80	-. 9 01 5 0
V_ 9 42 2 A		9 . 21 0	ug L /	4 . 2 3 5	4. 9 5 8	. 32 5 0
Z 6 2 02 n A		6 4. 2 0	ug L /	4.9 3	.6 21 2	. 32 1 0
Y_ 6 _3 00 R		44 8 70 ,C	Ss / t	4 . 3 3 27	.9 662 7 8	44 8 70 ,
Y_ 4 22 3 A		4 . 83 7, C	Ss / t	6 . 31 3 0	. 4 9 9 71 7	4 . 83 7,
Y_ 6 _3 00 A		4 2 28 30,C	Ss / t	4 1. 33, 5	. 4 0 65 33	4 2 28 30,

SG8865-002

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,

SG8865-002

eh lldmt ce:K6 - 10 02 101 eh ldl teisi R: vo 1n 033,
ayl sAm n et:N T N
cq u iDa er: t 12/2/2 103 : 1 8 85 M Samp lTyp e : U k w non n

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
g _2A 03	A	-4. 9 1 8	ugL	/	. 122 0	9 . 2 1 3	. 1 1 0 3
96 _3A1	R	4. 38 7	ugL	/	46.4 3	4 . 1 6	. 9 3 0 5
s9 1_A18	A	-49. 2 0	ugL	/	4. 62 5	49.9 2	. 0 0 8
u4 2A2 7	A	- . 4 1 8	ugL	/	49.4 0	. 2 27 3	. 0 76 0
B_ 92 0 8	A	6 32 7	ugL	/	4. 8 8	6. 2 7 8	66. 2 8
Ba4 4_ 55	R	. 11 3 8	ugL	/	. 1 0 2	.9 80	4 .62 2
B e _3 3 0	R	- . 6 17 0	ugL	/	.6 9901	.6 8 5 8	- . 4 2 8
Ca _3 5 8	R	646 08,	ugL	/	22 38,	. 3 350	2 7 50 3,
C 6 22 5	A	- . 6 0 71 7	ugL	/	. 90 577	. 7 53	- . 69 2
C 622 o 8	A	- . 1 0 2	ugL	/	4.9 35	49.4 1	. 1 7 0 3
C 6 2 i 77	A	-6. 1 7 8	ugL	/	. 02 2 3	. 4 32 7	. 9 2 5 7
Cu _2 3 7	A	-6. 17 8	ugL	/	. 11 1 5	.1 17 3	. 7 0 3
F e99 2 5	R	6 00,	ugL	/	4 .1 0 0	.91 3 2	9 . 7 8
K_ 664_ 7	R	66 6 00,	ugL	/	4 27 0,	.4 3 2	4 3 8 ,
L6i _ 7 7	R	.9 5	ugL	/	.911 1	. 2 0 8	4 .1 3
g 2M2 5	A	9 4 1 3 00,	ugL	/	2 3 2 700,	.462 5	994 2 ,
62M 57n	R	9. 2 2	ugL	/	4. 1 3 8	. 5 56	4. 18 7
2M2o 0	A	- 4 .1 27	ugL	/	.911 2	. 1 80	. 15 7 8
a 9 _ N5 8 5	RF	1 3 0 6,000,	ugL	/	201 00,	. 31 8	6 6 9 2 00,
i 62 3N	A	6.64 3	ugL	/	. 1 32 8	. 2 00 0	- . 6 01 7 8
P b 22 03	A	- .99 3 8	ugL	/	. 91 7 7	4.6 1 0	- . 3 56
S b 6 2 0 8	A	-4. 8 5	ugL	/	9. 9 7	6 4 2 ,	. 9 03 10
S 96 1_ 0	A	.41 3 3	ugL	/	6.1 2 0	9 .9 3 7	. 1 2 5 8
S i 62 1 5	R	946 5 ,	ugL	/	.4 3 35	.944 5	4.6 2
S 99 1_ 8n	A	9. 6 3 7	ugL	/	.61 5 0	66.6	. 1 1 2 0
S 4 _21 r 5	R	11 20 0,	ugL	/	449.4	4. 0 0 8	422 1 0,
T i49_33	A	- . 3 28	ugL	/	. 6 8 5	. 2 01 8	- . 42 1 8
T 9 1_ 0 8	A	- . 3 2 0	ugL	/	.41 2 7	9.9 3 8	- .4 1 1 3
V_ 9 42 2	A	- 9. 1 5	ugL	/	. 2 6	.61 2 1	- . 4 38 2
Z 6 2 02 n	A	. 2 7 77	ugL	/	. 5 0 5	9. 1 1 0	.96 1 1
Y_ 6 _3 00	R	3 22 3,C	Ss	/ t	4.6 70 7	. 91 8	3 22 3,
Y_ 4 22 3	A	46 .6 8 0, C	Ss	/ t	9. 7 0 85	.9 4 0 3 7 5	46 .6 8 0,
Y_ 6 _3 00	A	6 2 8 3 5,C	Ss	/ t	6 .3 7, 8	. 1 2 38 0	6 2 8 3 5,

SG8865-003

eh lldmt ce:K6 - 10 02 101 eh ldl teisi R: vo 1n 033,
ayl sAm n et:N T N
cq u iDa er: t 12/2/2 103 : 2 3 5 M Samp lTyp e : U k w non n

Elem	Flags	Avg	Units		Stddev	%RSD	Intensity Ratio
g _2A 03	A	- . 43 38	ugL	/	. 02 1 7	.66 5 3	. 1 3 3
96 _3A1	R	- . 1 72 3	ugL	/	6 .9 57	9 .6 2 3	6. 0
s9 1_A18	A	- .6 3 8 8	ugL	/	. 2 03 8	. 6 25 7	. 0 7 6
u4 2A2 7	A	- .4 21 1	ugL	/	9. 2 38	9.1 3 3	.4 0 7 6
B_ 92 0 8	A	4 2 5 3,	ugL	/	9. 5 72	. 22 7 8	. 35 38
Ba4 4_ 55	R	4.6 0	ugL	/	. 9 40 2	. 0 72 57	.62 3 0
B e _3 3 0	R	- . 4 7 5	ugL	/	. 1 2 3	6. 1 7	- .66 3
Ca _3 5 8	R	66 5 3 00,	ugL	/	21 38,	. 3 855	4 2 3 6,
C 6 22 5	A	- . 41 5 3	ugL	/	. 2 35	64.1 1	- .4 1 8
C 622 o 8	A	- . 1 257	ugL	/	. 4 2 8	6.11 1	.4 42 2
C 6 2 i 77	A	-6. 6 8	ugL	/	4. 9 3 0	6 . 3 85	.44 2 0
Cu _2 3 7	A	- . 2222	ugL	/	. 6 28 8	4.11 7	6.9 2 5
F e99 2 5	R	6 . 7 38	ugL	/	4.422	9. 2 21	4. 6 8
K_ 664_ 7	R	4 6 3 60,	ugL	/	6 1 1 6,	. 3 700	27 ,8
L6i _ 7 7	R	6 .4 22	ugL	/	9.643	6. 6 3 8	9.1 53
g 2M2 5	A	6 1 7 700,	ugL	/	1 6 60,	.992 0	92 3 7,
62M 57n	R	. 22 31	ugL	/	. 2 17 8	. 121 8	. 3 7 35
2M2o 0	A	- 4.9 8	ugL	/	. 92 1 8	. 1 25 5	.9 3 2

SG8865-003

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,
ayl sAm n et:N T N
cqu iDa er: t 12/2/2 10 3 : 28 3 5 M Samp IT p e : U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
a 9 _ 5 8 5	RF	11 2 6,000,	ug L /	4 2 2800,	. 62 2 0	4 5 500,
i 62 3N	A	- . 9 2 5	ug L /	.9 283	.6 538	- . 61 0 0
P b 22 03	A	- 4. 3 10	ug L /	. 1 3 03	. 3 18	- . 3115
S b 6 2 0 8	A	9.6 3 1	ug L /	. 21 00	. 352	. 96027
S 96 1_ 0	A	. 2 500	ug L /	9.6 0	4 .4 3 8	.641 5
S i 62 1 5	R	6 1 0 ,8	ug L /	4 . 75	. 72 8	.12 18
S 991_ 8n	A	- . 4 52	ug L /	4.66 7	4 1 1 8	. 1 003
S 4 _2 r 5	R	96 10 ,	ug L /	4 .9 70	4.9 4 0	946 0,
T i49_33	A	- .6 1 2	ug L /	. 632 0	96.4	- .462 0
T 9 1_ 0 8	A	- . 9 0 7	ug L /	. 4 0 2 8	. 1 32 3	- . 66 2
V_ 9 42 2	A	- . 11 88	ug L /	. 4 00 5 8	.46 0 1 3	- . 2500
Z 6 2 02 n	A	4. 1 75	ug L /	.9 9 0	4 . 53 7	. 90 777
Y_ 6 _3 00	R	3 72 25 ,C	Ss / t	9 .16 75	. 60 25 25	3 72 25 ,
Y_ 4 22 3	A	. 857,57C	Ss / t	.9943 7	. 6 04 28 8	. 857,57
Y_ 6 _3 00	A	9 92 0 00,C	Ss / t	4.99 7	. 4 02 57	9 92 0 00,

CCV

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,
ayl sAm n et:N T N
cqu iDa er: t 12/2/2 10 3 : 92 9 1 8 M Samp IT p e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	49 . 85	ug L /	. 1122	. 02 2 6	4 9 3 0,
96 _3A1	R	41 2 1 0,	ug L /	. 082 8	.6 0 12 5	6 46 0,
s9 1_A 18	A	4 .9 38	ug L /	. 4 07	. 02 22 0	.1 1 5 7
u4 2A2 7	A	49 . 21	ug L /	. 6 21 8	.44 60 0	2 102 ,
B_ 92 0 8	A	4 9. 18	ug L /	. 9401	. 44 02 1	4. 52
Ba4 4_ 55	R	4 . 85 8	ug L /	. 3 37 5	. 6 0 7 88	6 3 7 00,
B e _3 30	R	4 . 85 8	ug L /	4. 6 10	. 66 02 8	9 4 1 70,
Ca _3 58	R	41 2 6,	ug L /	6 .1 0 0	. 1 2 85	6 2 70 3,
C 6 22 5	A	49 . 3 5	ug L /	. 49 0	. 02 12 5	6 4 4 0 ,
C 622 o 8	A	494.6	ug L /	.4 0 37 7	. 9 66 0 57	61 28,
C 6 2 i 77	A	49 . 5 8	ug L /	. 41 2 7	. 02 1 5 5	4 78 ,
C u _3 2 37	A	494. 5	ug L /	. 94 8	. 03 38 0	6 9 28 ,
F e99 2 5	R	41 2 00,	ug L /	6.11 1	.9 6 0 32	43 7 50,
K_ 664_ 7	R	1 2 07 0,	ug L /	. 2 02 3	. 6 60 7	1 02 0 0,
L 6i _ 70 7	R	49 . 70	ug L /	.9 1 1 7	. 03 85 58	6 22 ,
g 2M 2 0 5	A	1 2 77 0,	ug L /	. 7 70	. 6 0 0 03	94 21 ,
62M 57n	R	4 .9 88	ug L /	. 44 5 8	. 91 1 5	4 77 0,
2M 2o 0	A	4 . 7 8	ug L /	. 1 51 7	. 1 02 8	6 . 85
a 9 _ 5 8 5	R	1 2 000,	ug L /	6 . 33 7	. 02 5 03	9 2 1 6,
i 62 3N	A	49 . 8	ug L /	. 1 2 58	. 62 2 5	49 1 0 ,
P b 22 03	A	. 60 8	ug L /	. 1 2 03	. 4 02 03	4 .9 1 5
S b 6 2 0 8	A	4 .6 88	ug L /	. 9 022 0	. 46 0 0 87	9.1 18
S 96 1_ 0	A	4 6.4 7	ug L /	. 7 70 5	.6 1 1 7	9. 6 80
S i 62 1 5	R	41 2 30,	ug L /	.1 3 73	. 4 1 0	9 6 85
S 991_ 8n	A	6. 52	ug L /	. 9 60 5 5	. 01 1 77	9.92 0
S 4 _2 r 5	R	49 . 1 8	ug L /	.6 2 0 5	. 96 02 5	49 6 80,
T i49_33	A	49 . 3 0	ug L /	. 9 1 00	. 46 02 0	6 2 0 70,
T 9 1_ 0 8	A	. 15 0	ug L /	. 9 64 0 5	. 9 90 0	. 2 0 5 8
V_ 9 42 2	A	494. 0	ug L /	. 1 21 2	. 4 02 35	4 0 0,
Z 6 2 02 n	A	49 . 2 0	ug L /	.6 0 17 5	. 0 3 27	91 21 ,
Y_ 6 _3 00	R	49 3 7 5 ,C	Ss / t	. 3 118 5	. 0 10 1 5	49 3 7 5 ,
Y_ 4 22 3	A	9 . 87 , 7C	Ss / t	4.6 2 88	. 60 02 5 6	9 . 87 , 7
Y_ 6 _3 00	A	6 3 0 88,C	Ss / t	9 6. 7 57	. 03 1 228	6 3 0 88,

CCB

eh lamt ce:K6 - 10 02 10 eh l eis R vo 1n 03,

CCB

eh Mdamt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T NA

cq u iDaa er: t 1 2/2/2 10 3 44 B2 M Samp lType e : QC

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	. 6 0 3 5	ug L /	. 4 010 2 5	. 8 87 8	.9 183
96 _3A1	R	-4. 9 2 8	ug L /	9. 4 7 8	. 22 1 8	. 6 32 8
s9 1_A1 8	A	.966 0 2	ug L /	. 44 03 0	.6 3 15	. 4 0 171
u4 2A2 7	A	- . 0 1 53	ug L /	. 96 03 1	6 .92 1	.6 1 87
B_ 92 0 8	A	- .66 1 3	ug L /	. 9 0 573	4. 3 38	. 4 3 18
Ba4 4_ 55	R	- . 0 0 7157	ug L /	. 0 202	.1 3 50	6 . 9 3 3
B e _3 3 0	R	- . 0 0 218	ug L /	. 4 901 8	. 6 35 5	- . 0 37 0
Ca _3 5 8	R	- . 28 8	ug L /	. 4 5 87	. 4 27 8	- . 92 32
C 6 22 5	A	. 0 22 3 5	ug L /	. 9 0 20 03	9.9 2	- . 90 87 8
C 622 o 8	A	- . 6 0 031 8	ug L /	. 9 0 0 5 88	6 . 2 50	. 2 1 5 7
C 6 2 r77	A	- . 4 0331	ug L /	. 010 3 77	4. 1 21	- . 466 03
C u _3 37	A	- . 02 575	ug L /	. 4 0 03 3 0	. 1 3 32	. 525 5
F e992 5	R	- .4 42 8	ug L /	4.69 5	9.1 80	.6 3 01
K_ 664_ 7	R	-6. 118	ug L /	.4 71 8	9.1 0 8	- 4.6 0
L6i _ 70 7	R	. 3 35 7	ug L /	. 9 0 533	6. 1 77	9. 2 25
g 2M0 5	A	- . 4 2 3 3	ug L /	.4 1 0 7	6 . 0 0 5	- . 6 3 7 8
62M 57n	R	- . 9 021 8	ug L /	. 96 02 3	4.1 3 8	- . 0 22 8
2M0o 0	A	.6 9 0 80	ug L /	. 4 0 80	.9 21	. 1 21 0
a 9 _ 15 8 5	R	. 1 25 5	ug L /	. 46 3	. 9 28 8	. 185
i 62 3N	A	- . 02 177	ug L /	. 4 0 2	6 . 2 8	- .6 4 2
P b 22 03	A	.69 0 3	ug L /	. 021 5	. 1 735	- . 9 2 3 3
S b 6 2 0 8	A	.6 9 0 2 2	ug L /	. 0 1525	.6 80	.69 0 1 0
S 96 1_ 0	A	4.4 1 3	ug L /	. 442 8	64.4 5	.446 2
S i 62 1 5	R	. 1 3 03	ug L /	. 2 32 3	.1 728	. 32 38
S 991_ 8n	A	.44 0 85	ug L /	. 4 0 5 57	.1 21 7	. 6 2 7
S 4 _21 r 5	R	- . 40 57	ug L /	. 0 33 5	4. 8 38	- . 3 333
T i49_33	A	. 640 5 8	ug L /	. 6 90 0 8	. 61 7	4.6 75
T 9 1_ 0 8	A	- . 01 32	ug L /	. 03 0 38	.42 27	- . 6 2 7
V_ 9 42 2	A	- . 9 90 0 17	ug L /	. 0 02 00	.6 32 8	- .44 3 8
Z 6 2 02 n	A	- . 01 7 8	ug L /	. 9 010 7 8	6. 9 7	. 6 02 7 5
Y_ 6 _3 00	R	64 3 7 2 ,C	Ss / t	4 . 241 7	.64 0 221	64 3 7 2 ,
Y_ 4 22 3	A	9 . 8 35, 5C	Ss / t	6. 94 8	. 60 88	9 . 8 35, 5
Y_ 6 _3 00	A	9 3 80,C	Ss / t	. 5157,0	. 416 17	9 3 80,

SG8865-004

eh Mdamt oe :K6 - 10 02 101 eh Md eisi R vo 1n 033 ,

ayl sAam net :N T NA

cq u iDaa er: t 1 2/2/2 10 3 : B 27 3 M Samp lType e : U k w non n

Elem	Flags	Avg	Units	Stddev	%RSD	Intensity Ratio
g _3A 03	A	. 737 7	ug L /	. 87 8	.91 2	. 7 7 88
96 _3A1	R	6 . 2 5	ug L /	. 2 101	. 33 3 7	4.9 2 0
s9 1_A1 8	A	-44.94	ug L /	. 9 57 5	.1 2 28	. 6 0 32
u4 2A2 7	A	- .9 25 5	ug L /	4 . 1 2 3	. 77 88	- . 2 000
B_ 92 0 8	A	6 2 3 ,	ug L /	.42 57	9. 738	4.94 5
Ba4 4_ 55	R	. 9 38 8	ug L /	. 9 1 80	9.66 7	.62 00
B e _3 3 0	R	- . 4 3 5	ug L /	.66 0 2	.992 0	. 992 1
Ca _3 5 8	R	6 6 3 00,	ug L /	91 7 00,	. 6 3 35	22 000,
C 6 22 5	A	- . 42 33	ug L /	. 0 00 08	. 4 03 2 8	- .66 1 7
C 622 o 8	A	- .6 31 8	ug L /	.4 4 5 7	.1 1 53	. 4 2 2 8
C 6 2 r77	A	- . 25 7	ug L /	9. 4 1 0	4.1 7 5	.94 2 2
C u _3 37	A	. 1 02 7	ug L /	. 31 17	. 30 88	. 9 2 8
F e992 5	R	6. 85 7	ug L /	6 . 3 70	4 . 2 85	9 .6 0 7
K_ 664_ 7	R	99 4 3 00,	ug L /	1 01 50,	.6 2 3	6 66 ,5
L6i _ 70 7	R	.9 3 57	ug L /	9.9 52	6. 4 7	. 6 380
g 2M0 5	A	32 3 00,	ug L /	6 21 00,	.4 8 03	4 42 0 ,
62M 57n	R	9.4 8	ug L /	. 3 765	.9 1 03	6 . 9 3 5
2M0o 0	A	- 9.61	ug L /	. 21 38	. 1 28 5	6. 1 33

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc. | **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 025627 | HCL: N/A | H2SO4: 13768

KMNO4: MR1286 | K2S2O8: MR1287 | NH2OH-HCl: MR1291

Method: 7470

REVIEWED

Htm 11-25-13

KATAHDIN ANALYTICAL METALS SECTION

Standards/Spiking Information:

1ppm A : MW14562

1ppm B : MW14536

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm B to 100 mL

S0.2 = 20uL of 1ppm A to 100 mL

S0.5 = 50uL of 1ppm A to 100 mL

S1.0 = 100uL of 1ppm A to 100 mL

S5.0 = 500uL of 1ppm A to 100 mL

S10.0 = 1000uL of 1ppm A to 100 mL

Water Bath ID : B

Thermometer ID : N/A

Digestion Start Time (@ 90 °C): 11:07

Digestion End Time(@ 97 °C): 13:07

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LC2WGK25HGW2	GK25HGW2	0.025	L	0.025	L	AQ	HG	EAM	11/25/2013	N/A	N/A	N/A	N/A	N/A	N/A
LCSWGK25HGW2	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013	N/A	N/A	N/A	N/A		
PBT1140A	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
PBWGK25HGW2	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013	N/A	N/A	N/A	N/A		
SG8825-027T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						A
SG8865-001	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						F
SG8865-002	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG8865-003	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG8865-004	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG8951-002	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						A
SG8951-002P	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG8951-002S	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-005T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-006T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-007T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-008T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-009T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9041-010T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						
SG9133-001T	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						A
SG9180-011	GK25HGW2		L		L	AQ	HG	EAM	11/25/2013						G

Htm 11-25-13

Digestion performed by: [signature] On: 11-25-13

Katahdin Analytical Services 0000582

Katahdin Analytical Services, Inc. | **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 25627 HCL: ~~55129~~ 33372 11-26-13 H2O2: N/A **Method:** 3010

LCS / Spike | **LCS/Spiking Information:**

- [x] [x] CLPP-SPK-1 (ID/Vol): MS1849 / 0.050 mL
- [x] [x] CLPP-SPK-INT1 (ID/Vol): MW14603 / 0.50 mL
- [x] [x] CLPP-SPK-INT2 (ID/Vol): MW14604 / 0.50 mL
- [ ] [ ] Uranium Spike (ID/Vol): N/A / mL
- [ ] [ ] CLPP-SPK-4 (ID/Vol): / mL

Hot Plate/Block ID : A

Start Time/Temp.: 10:11 / 93 °C

End Time/Temp. : 15:28 / 97 °C

Thermometer ID/Pos.: ALK23 / 3:4

Filter Paper: N/A

REVIEWED
11-27-13
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWGK26ICW2	GK26ICW2	0.050	L	0.050	L	AQ	IC	EAM	11/26/2013	N/A	N/A	N/A	N/A		
PBWGK26ICW2	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013	N/A	N/A	N/A	N/A		
SG9049-001	GK26ICW2	0.005	L	"	L	AQ	IC	EAM	11/26/2013						A
SG9065-001	GK26ICW2	0.050	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9065-002	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9065-003	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9065-004	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9081-001	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						B
SG9081-002	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						B
~~SG9081-003~~	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9081-004	GK26ICW2	0.050	L	0.050	L	AQ	IC	EAM	11/26/2013						B
SG9081-005	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9081-006	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						"
SG9180-011	GK26ICW2	"	L	"	L	AQ	IC	EAM	11/26/2013						G
SG9081-006P															B
0065															B

4 11/26/13

11-26-13

QA-064-Revision 1 - 09/23/2010 **Digestion performed by:** _____ **On:** 11-26-13 **Page:** GK151 **Revision:** 00

Katahdin Analytical Services 0000583

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG134761	SM2540	21-NOV-13	20-NOV-13	U 1 %	1 %	N/A
MBLANK	WG134768	SM2540	21-NOV-13	20-NOV-13	U 1 %	1 %	N/A

Katahdin Analytical Services 0000586

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

Ignitability

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG135430	SW846 1010	02-DEC-13	N/A	> 71. Deg. C	71. Deg. C	N/A

Katahdin Analytical Services 0000587

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG134761-2	LCS	WG134761	21-NOV-13	20-NOV-13	%	90	89.	99	80-120	
WG134768-2	LCS	WG134768	21-NOV-13	20-NOV-13	%	90	87.	97	80-120	

Katahdin Analytical Services 0000588

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Ignitability

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG135430-3	LCS	WG135430	02-DEC-13	N/A	Deg. C	27	27.	100	80-120	

Katahdin Analytical Services 0000589

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG134761-4	SG9044-9	WG134761	21-NOV-13	%	86.	86.	0	20

Katahdin Analytical Services 0000590

Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

- H1 pH
- H2 DO
- H3 sulfite
- H4 residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-1
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB1-111413	SL	14-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	86. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:51:42	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000593

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-2
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB2-111513	SL	15-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	84. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:51:51	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000594

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-3
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB3-111513	SL	15-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	90. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:01	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000595

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-4
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB4-111813	SL	18-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	86. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:10	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000596

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-5
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB5-111813	SL	18-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	86. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:19	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000597

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-6
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB6-111513	SL	15-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	90. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:29	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000598

Katahdin
ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-7
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB7-111413	SL	14-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	87. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:50	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000599

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH
nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-8
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
RS-SB8-111413	SL	14-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	78. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:52:59	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000000

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-9
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
FD-SO-111813	SL	18-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	86. %	1		N/A	SM2540G	WG134761	21-NOV-13 06:53:33	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000001

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9044-10
Report Date: 02-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
TB-SO-110813	SL	08-NOV-13	18-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	100 %	1		N/A	SM2540G	WG134768	21-NOV-13 07:08:58	SM2540G	20-NOV-13	

Katahdin Analytical Services 0000602

Report of Analytical Results

Client: Constance Lapite
AECOM Environment
701 Edgewater Drive
Wakefield,MA 01880

Lab Sample ID: SG9180-11
Report Date: 03-DEC-13
Client PO: need PO
Project: NAVSTA Newport CTO W
SDG: WE40-1

Sample Description	Matrix	Date Sampled	Date Received
IDW-GW-112113	AQ	21-NOV-13	21-NOV-13

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Ignitability	>71. Deg. C	71.	71.	N/A	SW846 1010	WG135430	02-DEC-13 10:32:00	N/A	N/A	

Katahdin Analytical Services 0000603

Raw Data Section

TOTAL SOLIDS BATCH REPORT
Nov 21 2013, 01:54 pm
Batch: WG134761

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SG8903-4	SL	SAMP	WG134761	20-NOV-13	1.325 g	16.4494 g	14.7087 g	KP	21-NOV-13	88.4910	88. %		
SG8986-1	SL	SAMP	WG134761	20-NOV-13	1.3101 g	13.217 g	2.3369 g	KP	21-NOV-13	8.6240	8.6 %		
SG8986-2	SL	SAMP	WG134761	20-NOV-13	1.323 g	17.5467 g	2.9049 g	KP	21-NOV-13	9.7500	9.8 %		
SG8986-3	SL	SAMP	WG134761	20-NOV-13	1.3259 g	20.5264 g	2.6763 g	KP	21-NOV-13	7.0330	7.0 %		
SG9013-10	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-4	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-5	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-6	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-7	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-8	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-9	SL	SAMP	WG134761	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9044-1	SL	SAMP	WG134761	20-NOV-13	1.3272 g	22.0591 g	19.0937 g	KP	21-NOV-13	85.6960	86. %		
SG9044-2	SL	SAMP	WG134761	20-NOV-13	1.3183 g	22.6928 g	19.2306 g	KP	21-NOV-13	83.8020	84. %		
SG9044-3	SL	SAMP	WG134761	20-NOV-13	1.3321 g	23.0418 g	20.8643 g	KP	21-NOV-13	89.9700	90. %		
SG9044-4	SL	SAMP	WG134761	20-NOV-13	1.3266 g	20.1449 g	17.4789 g	KP	21-NOV-13	85.8330	86. %		
SG9044-5	SL	SAMP	WG134761	20-NOV-13	1.331 g	21.1925 g	18.4238 g	KP	21-NOV-13	86.0600	86. %		
SG9044-6	SL	SAMP	WG134761	20-NOV-13	1.3244 g	21.8643 g	19.7209 g	KP	21-NOV-13	89.5650	90. %		
SG9044-7	SL	SAMP	WG134761	20-NOV-13	1.3259 g	25.3812 g	22.3243 g	KP	21-NOV-13	87.2920	87. %		
SG9044-8	SL	SAMP	WG134761	20-NOV-13	1.3182 g	26.7063 g	21.1044 g	KP	21-NOV-13	77.9350	78. %		
SG9044-9	SL	SAMP	WG134761	20-NOV-13	1.3126 g	21.7142 g	18.8587 g	KP	21-NOV-13	86.0040	86. %		
WG134761-1	SL	MBLANK	WG134761	20-NOV-13	1.3278 g	1.8197 g	1.3274 g	KP	21-NOV-13	-0.0810	1 %		
WG134761-2	SL	LCS	WG134761	20-NOV-13	1.3157 g	5.5884 g	5.1096 g	KP	21-NOV-13	88.7940	89. %	99	
WG134761-3	SL	DUP	WG134761	20-NOV-13	1.3169 g	18.4392 g	2.8187 g	KP	21-NOV-13	8.7710	8.8 %		2
WG134761-4	SL	DUP	WG134761	20-NOV-13	1.3156 g	26.0808 g	22.7167 g	KP	21-NOV-13	86.4160	86. %		0

Comments:

WG134761-1	SG8986-1
WG134761-2	SG8986-1
WG134761-3	SG8986-1
WG134761-4	SG9044-9

Entered by: _____ Date: 11/21/13

Accepted by: D. Hadeau Date: 11/24/13

Katahdin Analytical Services 0000605

KATAHDIN ANALYTICAL SERVICES, INC.

R25557D

TOTAL SOLIDS: ASTM D2216 - PQL: 0.10%			
ANALYST IN: KP	ANALYST OUT: KP		
DATE IN: 11/20/13	DATE OUT: 11/21/13		
TIME IN: 1255	TIME OUT: 0515		
TEMP IN: 103	TEMP OUT: 103		
Oven ID: 107N0042	Muffle Oven ID: 030807 (assigned)		
CHECKED BY: DN	DATE: 11/24/13		

TOTAL VOLATILE SOLIDS: SM2540 G / E160.4 - PQL 0.10%		
BALANCE ID: OHAUS - SN: 112401631		
TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
~~2.0000~~ 1.0000	0.9999	1.0000
~~5.0000~~ 50.0000	49.9996	49.9998
10.0000	9.9995	9.9995
100.0000	99.9995	99.9997

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
WG134761 -1Blank	1A					
" -2LCS	2A					
SG89876-1	3A					
-1DUP	4A					
-2	5A					
-3	6A					
SG9013-4	7A	100% 1	5	5		
-5	8A	1	5	5		
-6	9A	1	5	5		
-7	10A	1	5	5		
-8	11A	1	5	5		
-9	12A	1	5	5		
-10	13A	1	5	5		
SG9044-1	14A					
-2	15A					
-3	16A					
-4	17A					
-5	18A					
-6	19A					
-7	20A					
-8	21A					
-9	22A					
-9DUP	23A					
rerun SG8903-4	24A	1.3250	16.4494	14.7087		KP 11/24/13

TOTAL SOLIDS BATCH REPORT
Nov 21 2013, 01:54 pm
Batch: WG134768

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SG8903-18	SL	SAMP	WG134768	20-NOV-13	1.308 g	11.5788 g	10.8776 g	KP	21-NOV-13	93.1730	93. %		
SG8999-24	SL	SAMP	WG134768	20-NOV-13	1.327 g	13.5793 g	12.4622 g	KP	21-NOV-13	90.8820	91. %		
SG9002-1	SL	SAMP	WG134768	20-NOV-13	1.3078 g	12.0137 g	9.8555 g	KP	21-NOV-13	79.8410	80. %		
SG9002-2	SL	SAMP	WG134768	20-NOV-13	1.3251 g	20.6888 g	19.2559 g	KP	21-NOV-13	92.6000	93. %		
SG9002-3	SL	SAMP	WG134768	20-NOV-13	1.327 g	14.2966 g	12.8723 g	KP	21-NOV-13	89.0180	89. %		
SG9002-4	SL	SAMP	WG134768	20-NOV-13	1.3095 g	13.9336 g	12.8352 g	KP	21-NOV-13	91.2990	91. %		
SG9002-5	SL	SAMP	WG134768	20-NOV-13	1.3143 g	17.7766 g	16.2935 g	KP	21-NOV-13	90.9910	91. %		
SG9002-6	SL	SAMP	WG134768	20-NOV-13	1.3124 g	26.3353 g	21.8328 g	KP	21-NOV-13	82.0060	82. %		
SG9002-7	SL	SAMP	WG134768	20-NOV-13	1.325 g	18.5075 g	17.2633 g	KP	21-NOV-13	92.7590	93. %		
SG9013-11	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-12	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-13	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-14	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-15	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9013-22	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9044-10	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9048-1	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9060-1	SL	SAMP	WG134768	20-NOV-13	1.3251 g	13.897 g	12.2854 g	KP	21-NOV-13	87.1810	87. %		
SG9060-2	SL	SAMP	WG134768	20-NOV-13	1 g	5 g	5 g	KP	21-NOV-13	100.0000	100 %		
SG9061-1	SL	SAMP	WG134768	20-NOV-13	1.3058 g	19.6183 g	16.8491 g	KP	21-NOV-13	84.8780	85. %		
WG134768-1	SL	MBLANK	WG134768	20-NOV-13	1.3294 g	1.8255 g	1.3293 g	KP	21-NOV-13	-0.0200	1 %		
WG134768-2	SL	LCS	WG134768	20-NOV-13	1.3226 g	5.1012 g	4.6077 g	KP	21-NOV-13	86.9400	87. %	97	
WG134768-3	SL	DUP	WG134768	20-NOV-13	1.3213 g	14.8095 g	13.9379 g	KP	21-NOV-13	93.5380	94. %		0
WG134768-4	SL	DUP	WG134768	20-NOV-13	1.3269 g	25.5251 g	21.7713 g	KP	21-NOV-13	84.4870	84. %		0

Comments:

SG8999-24	TF2-004/5-SB1068-0204
SG9002-1	TF2-003-SB1017-011.6
SG9002-4	MS/MSD
SG9013-22	Oil, TS =%100
SG9044-10	Trip Blank, no TS jar
SG9060-2	tb, no ts jar
WG134768-1	SG8903-18
WG134768-2	SG8903-18
WG134768-3	SG8903-18
WG134768-4	SG9061-1

Entered by: _____ Date: 11/21/13

Accepted by: D. Hadden Date: 11.24.13

Katahdin Analytical Services 0000607

KATAHDIN ANALYTICAL SERVICES, INC.

R255516

TOTAL SOLIDS: ASTM D2216 - PQL: 0.10%

ANALYST IN:	KP	ANALYST OUT:	KP
DATE IN:	11/20/13	DATE OUT:	11/21/13
TIME IN:	1332	TIME OUT:	0520
TEMP IN:	103	TEMP OUT:	103
Oven ID:	107N0212	Muffle Oven ID:	030807 (assigned)
CHECKED BY:	DN	DATE:	11/24/13

TOTAL VOLATILE SOLIDS: SM2540 G / E160.4 - PQL 0.10%

BALANCE ID: OHAUS - SN: 112401631

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
~~2.0000~~ 1.0000	0.9999	1.0000
~~5.0000~~ 50.0000	49.9996	49.9998
10.0000	9.9995	9.9995
100.0000	99.9995	99.9997

SAMPLE ID	DISH ID	DISH WT (g)		DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
WG134708-1 Blank	1B						
" -2LCS	2B						
SG98903-18	3B						
" -18DUP	4B						
KP ~~SG98908~~ + SG899924	5B						
SG9002-1	6B						
-2	7B						
-3	8B						
-4	9B						
-5	10B						
-6	11B						
-7	12B						
SG9013-11	13B	100%	1	5	5		
-12	14B		1	5	5		
-13	15B		1	5	5		
-14	16B		1	5	5		
-15	17B		1	5	5		
-22	18B		1	5	5		
SG9044-10	19B	100%	1	5	5		
SG9048-1	20B		1	5	5		
SG9060-1	21B						
-2	22B	TB	1	5	5		KP 11/21/13
SG9061-1	23B						
-1DUP	24B						

WL-001 - Revision 1 - 11/05/2009

QAWL712

0000023

Katahdin Analytical Services 0000608

WET CHEMISTRY BATCH REPORT
Dec 02 2013, 01:45 pm
Batch: WG135430

Parameter: Ignitability

Prep Date: N/A

Date Analyzed: 02-DEC-13

Prep Method: N/A

Analyst Initials: ZS

Prep Chemist: N/A

Sample	Samp Type	Method	Initial Amt.	Final Amt.	Rpt. DF	Result	Rpt Result	TS(%)	PQL	MDL	Adj PQL	RPD	%Rec
SG9180-11	SAMP	SW846 1010	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
WG135430-1	MBLANK	SW846 1010	1.0000mL	1.0000mL	1	71	>71. Deg. C	NA	71	71.	71.		
WG135430-3	LCS	SW846 1010	1.0000mL	1.0000mL	1	26.97	27. Deg. C	NA	71	71.	71.		100

Comments:

WG135430-1 SG9180-11
WG135430-3 SG9180-11

Entered by: ZS Date: 12/2/13 Accepted by: [signature] Date: 12/02/13

Katahdin Analytical Services 0000609

KATAHDIN ANALYTICAL SERVICES, INC. - FLASHPOINT – CLOSED CUP LOGBOOK

METHOD: SW 846 1010	**p-XYLENE:** 27 Degrees Celcius	**Ambient Barometric Pressure (*) =** 760.984 mm Hg
PQL: 25 Degrees Celcius	**p-XYLENE Lot Number:** 3509	**(in. of Hg) X (25.4 mm/in)** 29.96 in Hg **-0.032472**

Sample ID	Analysis Time	Start Temperature (°C)	End Temperature (°C)	Flash? (Check appropriate box & record temp.) YES	Temp.(°C)	NO	Reported Flashpoint Corrected For Ambient Barometric Pressure	Comments
p-Xylene (LCS)	10:32	25. °C	27. °C	X	27.0°C		26.967528°C	
p-Xylene (LCS)	10:45	25. °C	27. °C	X	27.0°C		26.97°C	
Method Blank	10:57	25. °C	71. °C		71.0°C	X		
SG9041-7A		25. °C						WG135430 R256798
SG9180-11J	11:41	25. °C	71. °C		71.0°C	X		

* = Ambient Pressure of the laboratory at the time of the test. When the pressure differs from 760 mm Hg, correct the flashpoint as follows:
Corrected Flashpoint = (Observed Flashpoint in °C) + 0.033 (760 - the ambient barometric pressure in mm Hg) .

Analyst ZS Date 12-02-13

Reviewed By [signature] Date 12/02/13

WL-029 – REVISION 1 – 10/06/2010

QAWL697

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Katahdin Analytical Services 0000610